

iPad & iPhone user

NEW

iPad Pro

Hands-on with
Apple's new
mega tablet

**NEW****iPhone 6s****&****iPhone 6s Plus****iOS 9**

Questions answered



Welcome...

It was probably one of the worst kept secrets in Apple's history, but during its recent San Francisco event the company unveiled a new super-sized tablet – the iPad Pro.

With its Retina 12.9in screen, the Pro is the perfect device on which to watch movies and play games, but Apple is hoping its tablet will be used for work as much as for play. For the first time, the tech giant has launched a stylus – the Apple Pencil – and its own smart keyboard. Even Microsoft has got in on the act, and was at Apple's event to talk about Office on the iPad. We managed to get our hands on an iPad Pro and give you the lowdown on the king-size tablet on page 11. Plus, we've a complete guide to the new iPad on page 3.

Apple also used the September event to unveil the latest additions to its iPhone range – the 6s and 6s Plus. While little has changed on the outside, with the exception of a new Rose Gold option, its internals have received a boost. We've all the information you need on Apple's latest iPhones on page 16, plus a hands-on review on page 25.

To complement its new devices, Apple has released iOS 9, the latest version of its mobile operating system. Available to download now, we answer your questions on page 32.

We hope you've enjoyed this issue of iPad & iPhone User. Feel free to fire your comments to us via Facebook, Twitter or rob_grant@idg.co.uk.



Guide to 12.9in iPad Pro

Everything you need to know about Apple's mega tablet

With specs to rival even some Macs, the iPad Pro has the potential to become a serious productivity machine. Even though it won't be available until November, Apple has shared a lot of information about the design and the technology that went into building the device. Here's what we know about the most powerful iOS device ever.

The basics

When and where will I be able to get it?

The iPad Pro will be available for purchase starting in November on Apple.com/uk, in Apple Stores, and via

select carriers and authorized resellers. Apple hasn't yet shared a specific date or preorder information.

How much does it cost?

While no UK pricing has been announced, we can get an idea how much you'll have to pay by looking at US prices.

32GB model with Wi-Fi: \$799 (around £519)

128GB model with Wi-Fi: \$949 (around £616)

128GB model with Wi-Fi and cellular capabilities:
\$1,079 (around £700)

Wait, so I can't get a 64GB cellular model?

Not according to Apple. You must pony up for a 128GB iPad Pro if you want to jump on the internet without Wi-Fi.

What colours does iPad Pro come in?

Silver, Gold and Space Grey.

No Rose Gold?

No, but can you imagine?

How the Pro compares to other iPads

Is it bigger than previous iPads?

To say the iPad Pro is bigger than other iPads would be an understatement. While the screen on the iPad Air measures 9.7 inches diagonally, the iPad Pro's screen is more than 3 inches larger, measuring 12.9 inches. That's 78 percent more display area than that of iPad Air 2. The larger sizing is not arbitrary, however. Half the width of the iPad Pro is exactly

the height of the iPad Air 2 – a perfect geometry for running apps side by side.

**That's a lot of screen size,
but how does the display look?**

It looks good. The iPad Pro fills up its large screen with 5.6 million pixels in a 2732x2048 resolution (versus the 2048x1536 resolution of the iPad Air 2), making it the highest resolution Retina display Apple has ever produced, even besting the resolution of the 15in MacBook Pro. The iPad Pro also offers double the graphics performance of iPad Air 2, making it ideal for watching movies and playing video games.

**Wow. But should I
be worried that
the sound quality
won't be as good?**

Only final testing will tell, but the specs are promising. iPad Pro is equipped with four speakers, one near each corner to create an immersive 'soundstage' experience. These speakers have also been programmed to produce a well-balanced sound, whether you are



holding the iPad Pro vertically or horizontally. And a new casing design gives the Pro speakers 61 percent more back volume, a wider frequency range and up to 3x more acoustic output than previous iPads.

Okay, so it's bigger and louder, but is it faster than previous iPad models?

The iPad Pro comes with Apple's new A9X chip, which has twice the memory and is 1.8x faster than the A8X chip in the iPad Air 2. Apple calls this "desktop-class performance," so you'll be able to do things on the iPad Pro that you previously reserved for your Mac.

Additionally, Apple has updated the storage controller so you can quickly open large files, like 4K video, hi-res photos from your DSLR, or that seemingly endless PowerPoint presentation your boss wants you to edit.

Let me get this straight: higher resolution, better graphics performance, faster CPU... will all this drain the battery life in no time?

Not necessarily. Apple claims that the iPad Pro boasts 10 hours of battery life (9 hours if using cellular), just the same as the iPad Air 2.

I bet it's thicker and heavier then...

Okay, yes. The iPad Pro is a bit thicker and heavier than its previous Air 2 counterpart. But not significantly considering all the improvements. The Pro is 6.9 mm thick (the Air 2 is 6.1 mm), and it weighs 713g (the Air 2 weighs 437g).

Did the Pro keep any features or specs from the Air 2?

It kept plenty: Multi-Touch display, 8Mp iSight camera, 1080 HD video recording capabilities, 802.11ac Wi-Fi technology with MIMO, Touch ID, LTE and Apple SIM.

Note that 3D Touch, just introduced in the new iPhone 6s and 6s Plus, is not available on iPad Pro.

Multitasking features in iOS 9

Are there any new QuickType shortcuts?

iOS 9 introduces formatting buttons to the QuickType bar so that you can italicize, copy/paste or add attachments with just a tap. Another cool way to select and edit iPad text on iOS 9 is to simply place two fingers on the touchscreen. This turns the screen into a trackpad that you can use



to select text by dragging. Furthermore, third-party apps can customize the shortcuts that appear on the QuickType toolbar, so that you can have all the important buttons right at your fingertips.

I heard I can now have two apps open at the same time. How does that work?

There are three ways to view and interact with two apps simultaneously on an iPad Pro in iOS 9. First, we have Slide Over, where you can choose a second app to open up as a pinned sidebar on the right. Second, there's Split View, where two apps take up half of the screen. Finally, Picture-in-Picture lets you watch a video or chat on FaceTime while having another app running in the background. The video screen becomes a smaller window that you can drag and resize.

New accessories: Smart Keyboard and Apple Pencil

How does the Smart Keyboard work?

Think of the iPad Smart Cover but with a slim, foldable, lightweight, water-resistant, 4mm keyboard built in. In addition to using it to type, you can fold up the Smart Keyboard to prop up the iPad Pro or cover up the screen completely.

How do you hook it up to the iPad Pro?

Apple has created a new three-pronged Smart Connector that allows for the Smart Keyboard to be connected to the iPad without plugs or wires or Bluetooth pairing. It's similar to how the Apple Watch's diagnostic port works. The Smart Connector



allows for the seamless transfer of data and power between devices, so you won't have to charge the Smart Keyboard.

How much does the Smart Keyboard cost?

Again no UK price has been announced but it will retail for \$169 (around £110).

And what's so special about Apple Pencil?

Apple's first stylus for the iPad Pro is pretty self-explanatory. You can use it to add handwritten notes to your digital documents, but it's also got some cool technology that will be particularly intriguing for sketch artists. Apple Pencil has several sensors on both its case and the tip that can detect the



position, pressure, angle, and orientation of your strokes. Draw gently on the screen to create light strokes, or press down to draw thicker lines. Two sensors on the tip work with Multi-Touch display to detect whenever you're tilting the Pencil to create a shading effect. Apple Pencil can also be used simultaneously with your fingers, too, for those who have yet to graduate past the finger paintings stage.

How do you charge Apple Pencil?

Instead of an eraser, the Apple Pencil boasts a Lightning connector. Simply take off the cap (see left) and plug the Pencil into your iPad Pro. Fully charged, Apple Pencil lasts up to 12 hours. And just having the Pencil charging for 15 seconds will get you 30 minutes of sketching time.

Any other accessories?

Yes, Apple also has new Smart Covers and Silicone Cases to outfit your iPad Pro. The Smart Cover comes in two colours: charcoal grey and white.





Hands-on with the iPad Pro

Susie Ochs gets her hands on Apple's XL iPad

Five years after its launch, the iPad is growing up. The new iPad Pro, introduced at Apple's media event on Wednesday, blurs the line between iPad and MacBook just a little more, with a 12.9in screen capable of running two apps side by side without either of them feeling cramped in the slightest.

But as large as it is, the iPad Pro doesn't feel unwieldy, even to me, an avowed fan of the iPad mini. We've learned from the iMac and the iPhone both that people love giant screens with tons and tons of pixels crammed on to them, and that's what the iPad Pro delivers, along with performance

that should let more people than ever leave their laptops at home.

Thin and light

The iPad Pro is only 713g, which is astonishing since my first-generation iPad is still in active service at my house, and it weighs 730g. The iPad Pro is so much bigger but doesn't feel unbalanced or awkward. I could hold it easily, but – and I realise you'll make fun of me for this, and that's okay – I sort of wished it had a kickstand like the Surface Pro.

But once you have it propped up just how you like, the iPad Pro's screen looks amazing. At 2732x2048 resolution, it's got 5.6 million pixels, and the short side has as many pixels as the longer side of an iPad mini. I was impressed with the responsiveness of iOS 9, as I easily pulled out the sidebar and entered Split Screen view.





Pencil power

You don't need a stylus to use any iPad, and the iPad Pro is no exception. Luckily, the Apple Pencil isn't a stylus. It's not aimed at pointing and tapping things you can reach just fine with your fingers, thanks. Rather, it's for pressure-sensitive drawing and painting in apps as simple as Apple's own Notes app, or as complex and professional as the demonstrated Procreate or AutoCAD.

The Pencil felt great from the moment I picked it up. It feels like a pencil, very natural (although you can say the same for other smart Bluetooth styluses on the market), and using it felt natural too. Sensors can detect the pressure and angle, so it was effortless to create lines of different thicknesses. The Notes app even has a ruler that let me draw perfectly straight. Using the side of

the Pencil's tip created realistic shading, like using the side of a pencil lead.

A Lightning connector hidden in the end of the Pencil lets you plug it right into the iPad Pro for charging. An Apple rep told me that its quick-charging feature lets it grab enough juice for another hour or so of work in just a few minutes, and a full charge should last all day. You can plug it into an AC charger with an adaptor that I didn't get to see.

Apple also created its own Smart Keyboard, similar in appearance to the Touch Covers that Microsoft makes for the Surface tablets (see page 9). It closes around the front of the iPad Pro and flips back to form a stand, just like the Smart Covers Apple has made for a while. But it has a built-in, fabric-surface keyboard with short key travel similar





to the new MacBook. Third-party keyboards will be able to use the iPad Pro's Smart Connector, which powers and pairs the keyboard for you automatically – Logitech just announced one.

More of the same

Apple talked about how much faster the iPad Pro's A9X chip is than the A8X in the iPad Air 2, but remained quiet about details like how much RAM it has. Apple has teamed up with IBM to create iPad apps to be used for all kinds of work, since anything a clipboard can do, an iPad can do so much better, and having a laptop-quality iPad Pro on the high end of the line can open up more possibilities for people who need big power in a package that's lighter than the MacBook. My demo running split-screen Microsoft Office apps was impressive, but when developers put the pedal to the iPad Pro's Metal, it's going to be fun to see what happens.



Guide to iPhone 6s/6s Plus

All the information you need on Apple's newest iPhones

Apple's new iPhones are available to preorder now, though they don't go on sale until September 25, which means you still have time to think about upgrading. To help you make an informed decision, here's all the critical information we learned today about the iPhone 6s and 6s Plus.

The basics

How much do the new phones cost?

16GB iPhone 6s: £539

64GB iPhone 6s: £619

128GB iPhone 6s: £699

16GB iPhone 6s Plus: £619

64GB iPhone 6s Plus: £699

128GB iPhone 6s Plus: £789

What colours can I buy?

Colours include the standard space grey with black bezel, gold with white bezel, and silver with white bezel – and there's also a brand new rose gold option with a white bezel. It's similar to the Apple Watch Edition in rose gold, but less expensive.

The big changes

How do the 6s and 6s Plus

compare to the 6 and 6 Plus?

This is an in-between year for iPhones, which means there are no major exterior changes. The 6s has a

4.7in display, just like its predecessor, and the 6s Plus has a 5.5in display, like the 6 Plus.

While they might look the same, the new iPhones are made of slightly different materials than last year's models. Both the 6s and 6s Plus are made of Apple's 7000 series aluminium alloy, the strongest of any iPhone ever made, which is also what Apple used to craft the Apple Watch Sport. The aluminium is aerospace industry-grade.

The phones also have what Apple calls "the strongest cover glass used on any smartphone in the world" thanks to a dual ion-exchange process that makes the glass stronger on the molecular level. The Retina HD displays offer the same resolution as last year's models: 1334x750 for the 6s and 1920x1080 for the 6s Plus.

The new iPhones are every so slightly thicker than their predecessors. The 6s Plus is 7.3mm thick to the 6 Plus's 7.1mm, and the 6s is also a hair thicker than the last-generation model: 7.1mm to 6.9mm. We're guessing that's due to the stronger aluminium alloy, but Apple didn't specify.

Okay, but what's under the hood?

Don't think that because the display looks the same, it actually is the same. Apple has completely reengineered its multi-touch display with new capacitive sensors built into the display's backlight. Those sensors measure the tiny changes in the distance between the cover glass and the backlight – changes caused by the pressure in your fingertip. The new display, called 3D Touch, responds to that pressure in different ways depending on how

long you press on the screen. This is all powered by algorithms that combine feedback from the capacitive sensors with the information from your phone's touch sensors and accelerometer.

Sounds complicated, but the end result are new gestures that Apple calls “peek and pop” and “quick actions.” You'll know which you've unlocked based on the new Taptic Engine, similar to the one found in the Apple Watch, which responds to your pressure with taps. Taps can be long or short depending on the action you're performing, just like the watch.

What is peek and pop and how does it work?

One of the new gestures supported by the 3D Touch display lets you “peek” into content without actually opening it, then “pop” in if you want to interact with

it. This gesture works in apps like Mail, where a light press on an email will let you preview what it says, and a deeper one will let you pop in to deal with the message. Peeks require you to keep your fingertip on the screen – lift it up, and the preview disappears.

You can also use peek and pop to preview web links without launching Safari, check out and thumb through photos without opening



and swiping, and check out an address without jumping into Maps.

You don't have to pop into a peek to interact with a piece of content like an email, though. You can also use a familiar gesture, the swipe, to deal with it. Swipe up when peeking into content to bring up a menu of shortcuts – for instance, in a web link preview, you can swipe up to see a set of options to copy that link, open it in a new tab, or add it to your Reading List for later viewing. In email, swiping left or right on a peek into a message will let you delete it or mark it as unread.

And what about quick actions?

3D Touch also unlocks menus of shortcuts with hard presses on home screen app icons. These quick actions could be anything – a hard press on the Camera icon pops up options to take a selfie, record video, record slo-mo, or take a photo, while a hard press on Messages lets you compose a new message right away. Apple showed off the new gesture with its native apps and a handful of chosen early partners, like Facebook and Instagram, but just opened a 3D Touch API to all developers who want to add quick actions to their own apps.

What else is 3D Touch capable of?

Peek and pop and quick actions are amazing new gestures, but that's not all the new iPhones' pressure-sensitive display allows you to do. Some other capabilities: A forceful press on a contact's profile photo anywhere in iOS 9 – Mail, Messages, and so on – will pop up their contact details. In



Notes, a light press in sketch mode will change the point to a finer one for writing or drawing, and a deep press will make the lines thicker. A deep press on the keyboard within apps in iOS 9 turns the keyboard into a trackpad. Use a forceful touch on the left-hand side of the home screen to see all of the apps you have open in multitasking mode, then swipe through until you find the one you want to use. A tap will open it.

How do the internals compare?

The new iPhones ship with Apple's new A9 processor, a 64-bit chip embedded with the M9 motion coprocessor. The M9 makes it possible for your iPhone to track your fitness with an accelerometer, gyroscope, barometer, and compass, and also supports the ability for Siri to remain always on. Just say, "Hey Siri" to summon her without needing to press the home button or plug your phone into a power source. The M9 will also add running and walking pace-tracking to the iPhone 6s and 6s Plus.

Embedding the coprocessor directly into the chip increases battery life, Apple says.

Do the new phones have better cameras?

Do they ever. The iSight camera (the rear-facing one) now takes 12Mp images, a huge jump of the previous generation's 8Mp camera. Apple also added a new sensor, image signal processor, and improved optical image stabilization for the highest-quality photos the iPhone has ever taken.

The new iPhones take advantage of the overhauled camera system with a new feature called Live Photos. When you take a photo using the 6s or 6s Plus, the camera will capture 1.5 seconds just before and immediately after snapshot is taken to make your photos more cinematic. With a press on the image, you can watch the scene come to life instead of just staring at a still. You can even make those Live Photos your iPhone wallpaper or your Apple Watch face.

That's not all. The 6s and 6s Plus now support 4K video-recording in 3840x2160 resolution at 30 fps.

That's four times higher than the 6 and 6 Plus. Apple also added optical image stabilization to the 6s Plus camera for video, too.



The new iPhones also get an upgraded FaceTime camera that shoots 5Mp photos with Retina Flash, a new feature that makes your display flash three times brighter for low-light selfies.

So Live Photos can live on my lock screen. What about animated ones?

The stunning animated watch faces that we first saw on Apple Watch are now coming to the iPhone with dynamic wallpapers in iOS 9. You can watch Koi float effortlessly on your lock screen, or a smokey blue plume of smoke undulate. It's a small feature, but an impressive one that showcases the iPhone's gorgeous graphics.

Any changes to wireless capabilities?

The new iPhones support up to 23 LTE bands, so your smartphone is just as fast when you're travelling abroad.

Let's talk about accessories

Will iPhone 6 and 6 Plus cases work on the new iPhones?

The 6s and 6s Plus are just a tiny bit thicker than last year's models, but that difference could be enough to make existing cases obsolete – at least when it comes to casing the new phones. But it really depends on the case manufacturer. Some companies, like Speck, have already clarified that their 6 and 6 Plus cases will work on the new phones. Others might be just a smidge too small, especially in the case of the 6s Plus, which isn't just thicker than last year's model: it's also taller.

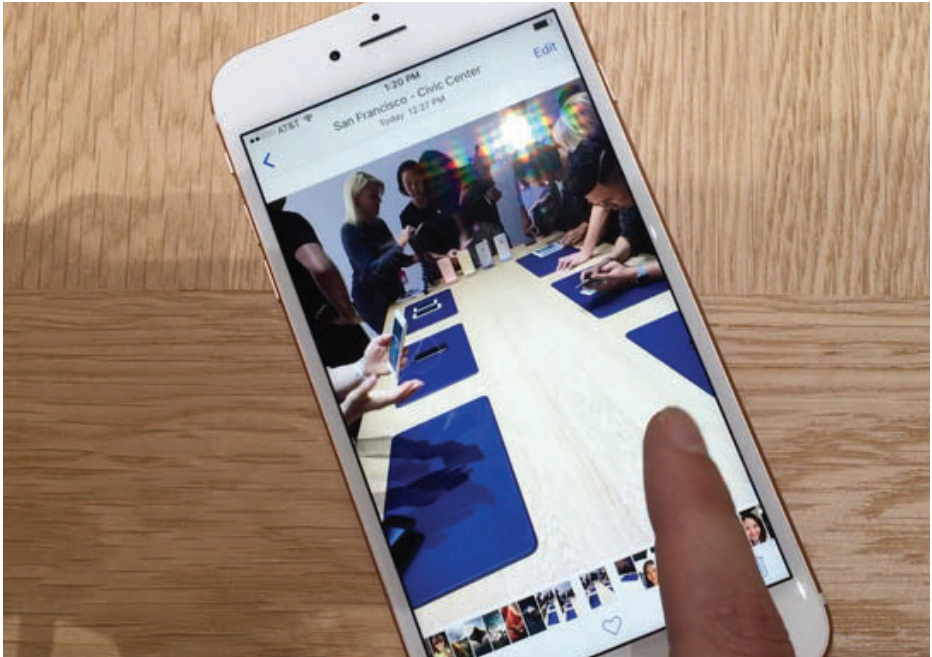
Is Apple making new cases?

Of course. The company made five leather cases for each phone and a whopping 11 shades of silicone cases, too. The leather cases retail for £35 and £39 for the 6s and 6s Plus, respectively, and come in midnight blue, rose grey, saddle brown, brown, and black. The silicone cases are slightly cheaper at £25 and £29 for the 6s and 6s Plus. The colour options are white, charcoal grey, stone, antique white, blue, turquoise, midnight blue, lavender, pink, orange, and a Product (RED) red case.

What about charging docks?

Apple is also making Lightning docks at £39 a pop, one to match each of the new iPhone's four shades: silver, gold, space grey, and rose gold. You could also mix and match if you want to live dangerously.





Hands-on with iPhones

Susie Ochs is impressed by Apple's new handsets

The only thing that's changed is everything," Apple said about the new iPhone 6s and iPhone 6s Plus at Wednesday's Apple event. That's both true and untrue. The case looks pretty much the same, the screen sizes didn't change, and the entry-level model still has a paltry 16GB of storage. But inside it's an all-new iPhone with some impressive new capabilities.

I got hands-on time with the new models, and even though the presentation didn't blow me away,

the new 3D Touch and Live Photos features deliver a delightful experience.

Live Photos

“What is a picture?” pondered Phil Schiller on stage. After more than an hour and a half of keynote, this wasn’t a philosophical debate I was excited about having. But he had a point: A photo is a still image of a moment, but a moment can have a beginning, middle, and end that one frame can’t always fully represent. Enter Apple’s new Live Photo feature. It’s on by default in the main Camera app, and if you leave it on, it automatically captures 1.5 seconds, er, moments before and after your shutter press.

That sounds like a video, but Apple says it’s not a video. These are 12Mp photos captured by the rear iSight camera, and if you send them to a friend who’s using iOS 9 or El Capitan, an animation comes with. (And if you send them anywhere else, they arrive as plain JPEGs like usual.)

Flipping through the Live Photos in the Camera Roll, you’ll see a little glimpse of the animation – it’s just enough motion to let you distinguish a Live Photo from a standard one. When you press harder on a Live Photo (a manoeuvre Apple calls 3D Touch on the new iPhones), you’ll see the full three seconds of motion.

I have a three-year-old, and a lot of my photos of him wind up blurry because at least some part of his body is in motion virtually all of the time – the boy is a walking wiggle. I don’t think you get to scrub through a Live Photo frame by frame and pick out the single still image that’s not blurry, but getting to

see an animation of one of his wiggles would beat any blurry photo, or one where his eyes are closed.

Developers will get to use Live Photos too – Facebook is working on supporting the feature, aiming to finish by the end of this year. But even if they never leave the iPhone itself, Live Photos are just cool. You can even use one as your lock screen wallpaper, and then 3D Touch it to make it move.

3D Touch

3D Touch, you ask? Yup, that's the other big feature exclusive to the iPhone 6s and 6s Plus. It works just like Force Touch on the Apple Watch – you press harder, like you're trying to push right through the screen, and that's a different kind of touch than a



regular swipe or tap. This will let you interact with apps (from Apple and third parties) in new ways.

For example, you can 3D Touch icons on the home screen for shortcuts to certain features: the Facebook icon hides shortcuts for changing your status or checking in, while the Camera app's icon holds options for taking a selfie or shooting a new video. If you attempt to use 3D Touch on an icon that doesn't support it (like Health), you'll see the icon pop a little to let you know that the 3D Touch did in fact register, but nothing else is going to happen.

3D Touch gets even cooler once you open apps. You can use it to preview a new message in Mail, but it's not quite as handy as Quick Look in OS X, because the preview disappears when you lift your finger back off the screen. During my hands-on time,



I found myself 3D Touching a message, and then lifting my thumb to see what it says. But of course, the message preview vanishes, so I 3D Touched it again. And again, and again. It would be quicker to just tap the message to open it.

But the preview isn't really for reading, it's for quick triage. Apple calls the first preview the 'peek', and if you don't lift your finger, you can swipe up, left, or down for options. Swipe right to mark the message as read – you'll see a Mark As Read option as the preview slides to the right to remind you what will happen when you lift your finger. Swipe left to delete the message. Swiping the message up produces buttons to reply, forward, flag, remind you about the message later, or move it elsewhere. Since you need to tap those buttons separately, the swipe-up move does fix the preview window in place.

If you 3D Touch the peek again, you'll open the message, a move Apple calls the 'pop'. If you peek and don't pop, the message doesn't get marked as read, so peeking in is a quick way to see if an email is the droid you're looking for without having to go back and mark it as unread if it wasn't.

3D Touch does tons of things in Messages, too: Hard-press a name for options to call, FaceTime, add to contacts, and so on. Hard-press URLs to peek at them, and again to pop into Safari. Hard-press street addresses to see them on a map, or dates to make a calendar appointment. This should prevent a lot of switching back and forth between apps when you're making plans with groups of friends.

As with Live Photos, the 3D Touch feature is open to developers. For example, Facebook's app

icon has shortcuts to post a new status or check in right from your home screen. Instagram lets you 3D Touch everything, peeking into thumbnails and user profiles anywhere in the app. I asked if 3D Touch could be used to provide haptic feedback for an iPhone keyboard, and the rep didn't think that was in the API just yet, but wasn't totally sure. Still, even as it is today, I think 3D Touch has the potential to make Apple's large-screened phones easier to navigate with one hand.

Early adopters of the Apple Watch had mixed feelings about Force Touch on that device. It's unbelievably handy, but not exactly intuitive — there's definitely a long learning curve before your brain remembers where to Force Touch and what you'll find once you do, since every app can use



it differently. In my short hands-on time with the iPhone, I had the same problems, but hopefully once the iPhone 6s is in my possession full-time, 3D Touch will quickly become second nature.

Camera and hardware

The iPhone's rear iSight camera has been upgraded to 12Mp, and can shoot 4K video. The improved FaceTime camera on the front can take 5Mp stills. I didn't get to fully test either in the demo room, of course, but the shutter speed is crazy fast, and zooming in on the demo photos on each device revealed tons of detail. Panoramas are up to 63Mp now, and I love how their dedicated album in iOS 9 shows you the whole panorama in each thumbnail.

Besides the new cameras, the hardware is nearly the same. The second-generation Touch ID home button works faster, according to Apple, so we'll do some side-by-side tests when we get our iPhone 6s review unit. The new rose gold colour is really nice in person, and Apple was smart to release it alongside a rose gold-coloured aluminium Apple Watch Sport, so you can match colours without having to mortgage your home for a rose gold Apple Watch Edition.

The iPhone 6s and 6s Plus are ever-so-slightly thicker than the iPhone 6 and 6 Plus, but only by two-tenths of a millimetre, so definitely not noticeable when you're holding them. Cases for the new phones should fit the old phones, and cases for the old phones may fit the new ones, depending on their design and materials. All the buttons and ports are in the same place, and so is the camera.



iOS 9 questions answered

Want to know about iOS 9? We answer all your questions

When you call “Hey Siri,” you want to know that your phone is actually listening to you. But with the new proactive intelligence in iOS 9, Apple’s personal assistant will start to anticipate your desires before you even have a chance to ask. That’s just one of the improvements announced at the latest Worldwide Developers Conference. Rather than adding a ton of new features, Apple has instead focused on refining the user experience.

This time around, Siri can use your location, time, app usage and connected device data to forecast your needs. Several built-in apps have also either

been given substantial updates (Maps, Notes) or replaced entirely with more exciting alternatives (Wallet, News). Plus, iOS 9 allows you to interact with two app at once on your iPad.

The basics

What's new in iOS 9?

Apple has massively improved and expanded several essential built-in apps and services. Most notably, Siri is now a much meatier proposition, while Maps has included mass transit data. Furthermore, the Passbook built-in app has been replaced with the Apple Pay-powered Wallet, and the stagnant Newsstand has been replaced by News, a personalised reading app. The new iOS will also give the iPad several new options, including Split View and Picture-in-Picture, for helping power-users get stuff done.

What about security updates?

iOS 9 brings a couple new security features that should help keep your data safe if your iPhone or iPad fell into the wrong hands. Six-digit passcodes will now be offered by default, instead of the four-digit default passcodes we use now, along with native two-factor authorisation whenever you try to sign in from another device.

I'm considering moving from Android to iOS. Is there anything in this release to help convince me?

Apple has created a Move to iOS app that's designed specifically to convert Android users. Move to iOS is a quick and seamless way for

Android users to transfer their contacts, message history, mail accounts, calendars, photos, videos and free apps to their new iPhone. It even adds a list of paid apps you bought for your Android to your Wish List in the App Store.

Will this update affect my battery life?

Yes, but in a positive way. Apple claims that apps and key features in iOS 9 have been made more efficient in order to add an extra hour to your device's battery life. It will achieve this by using the iPhone's built-in sensors, which are used to determine when the device needs to light up and when it can remain dark. Taking it even further, you can enable the all-new Low Power mode when your battery is running low – Apple says this can make your iPhone last an extra three hours.

Incorporating intelligent assistance

Siri on steroids?

In addition to receiving a redesign, Siri is now smarter than ever. You can use the personal assistant to search photos and videos stored on your device by date, location and album title. Siri can also take into account what you're doing on your iPhone at any given moment to create contextual reminders. For example, if you've found the perfect hotel for an upcoming holiday, you can simply tell Siri to "remind me about this" and it will create a reminder linking directly to the web page you were viewing on Safari at the time you set the reminder. Apple has also given Siri the power to provide you with 'proactive assistance'.

Siri



What is 'proactive assistance'?

Siri can now take into account your location, the time of day, recurring activity, usage patterns, the app you are viewing or other connected devices, to better anticipate your next move and provide relevant actions and information. All this before you even have the chance to ask or type in a query. When you plug in your headphones, for example, Siri will offer to start playing the music playlist you typically listen to during that time of day. Or when you connect your iPhone to your car's CarPlay or Bluetooth stereo, Siri will ask whether you want to resume listening to the audiobook you've been enjoying during recent commutes.

Do I have to launch Siri every time I want assistance?

The thing about Siri's new 'proactive' approach is that it's better integrated with native apps to work in the background and serve up the most relevant information. For example, Siri simultaneously taps into your Calendar events and uses the location, routing and traffic information in Maps to send you a notification when you should leave for an appointment to ensure you make it there on time. Similarly, when you receive a call from a phone number not in your Contacts, Siri can check your Mail messages for that number, in an attempt to identify it for you.

Why should I care that developers now have Spotlight search API?

iOS 9 will have a more robust Spotlight search engine, which will provide deep links to your downloaded apps right in the search results. For example, if you look for the name of a food in iOS 8, you'll be shown any reference to it in your email, plus results from the internet and Wikipedia. In iOS 9, however, your results could include recipes from Yummly or any other food apps you have installed. Tapping it will provide a link into that app, so you are taken directly to the recipe you want. Apps such as Vevo, YouTube and Vimeo, will allow you to play a video directly in the search results.

Improving built-in apps

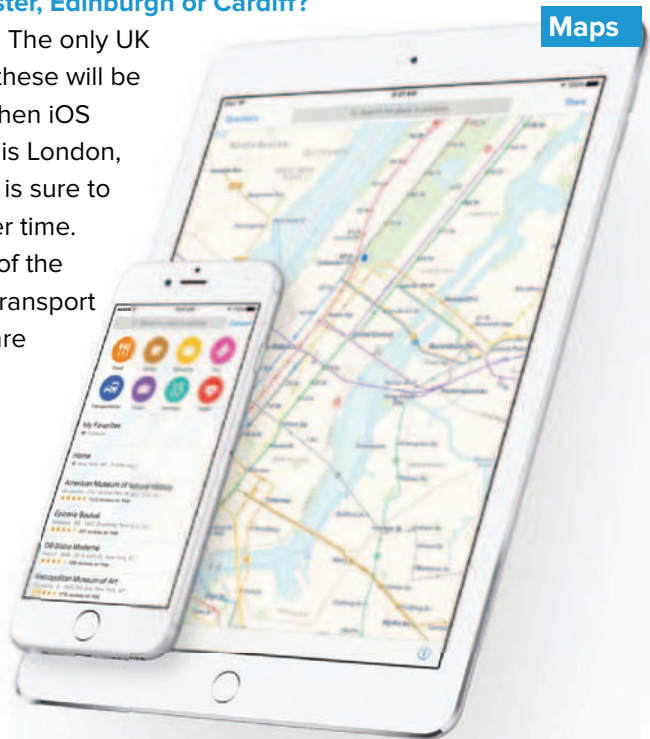
Maps finally includes mass transit directions. What took so long? In order to make mass transit

directions in Maps as accurate as possible, Apple surveyed individual public transportation stations to compile its own data. The tech giant says the data is so precisely mapped that it can help you work out the best public transportation route right down to which entrance to use to enter a subway station. Transferring trains at busy stations such as London's St Pancras International will be easier than ever since the transit directions will tell you which way to walk to catch your next train.

Can I use Maps' new public transport directions in Manchester, Edinburgh or Cardiff?

No, not yet. The only UK city where these will be available when iOS 9 launches is London, though this is sure to change over time.

Outside of the UK, Maps' transport directions are



available in a number of cities, including New York, Berlin and Toronto, as well as 300 cities in China.

Anything else new with Maps?

In iOS 9, it also incorporates a Nearby feature that showcases more information from local businesses, including whether they accept Apple Pay.

Did any other Apple apps get a big improvement?

Note-taking may not be the most glamorous of features, but iOS 9 gives the Notes app enough bells and whistles to compete against Evernote and Microsoft's OneNote. For example, you can now use your finger to create a digital scribble (see above). Other new features include being able to take a photo without having to leave the app to make your notes more visual, while URLs and maps show up as graphical links. Notes can also turn any list into an interactive to-do checklist, giving you the ability to cross off different items one by one. Lastly, the app is now a destination in iOS 9's Share sheets, so you can compile web pages from Safari, directions from Maps, or attachments from another app right into your notes.

What's happening to the Passbook app?

In iOS 9, Passbook is replaced with a brand-new Wallet app. You will still be able to store your Starbucks card, concert tickets and boarding passes in your Wallet, just as you do in Passbook.

So then why change the name to Wallet?

Wallet is also the home of Apple Pay.

Are all major payment services now onboard with Apple Pay?

Yes. It supports transactions conducted by Visa, MasterCard and American Express.

How many businesses accept Apple Pay in the UK?

According to Apple, over 250,000 locations will accept Apple Pay. The number is expected to increase over the coming months.

Why did Apple replace the Newsstand app with News?

Publishers complained that the Newsstand app buried their content, so Apple came up with a more dynamic solution: a Flipboard-style reading app called News.

Productivity



What can I read using the News app?

Over 50 publications have teamed up to join Apple's News, including Time, Vogue, Wired and Vanity Fair.

How will News stories look on my device?

In order to keep a consistent design and visual identity, Apple has released a News Publisher app to help publishers create content specifically for News. Publishers will be able to tinker with layouts, typography, photos, videos and animations to create the most compelling content for News.

Boosting iPad productivity

Are there any new QuickType shortcuts?

iOS 9 introduces formatting buttons to the QuickType bar, so you can italicise, copy/paste or add attachments with just a tap. Furthermore, third-party apps can customise the shortcuts that appear on the QuickType toolbar.

I've heard I can now have two iPad apps open at the same time. How does that work?

There are three ways to do this. First, Slide Over lets you choose a second app, which opens up as a pinned sidebar on the right. Next up is Split View, where two apps take up half of the screen. Finally, Picture-in-Picture lets you watch a video or chat on FaceTime, while having another app running in the background. The video screen becomes a smaller window that you can drag and resize.

You'll need an iPad Air, Air 2, mini 2, or mini 3 for Slide Over and Picture-in-Picture, and an iPad Air 2 (or presumably, whatever comes next) for Split View.



iOS 9 compatible devices

The devices can that download Apple's new iOS

Apple took to the stage at WWDC 2015 to show off iOS 9, and with the unveiling of the new mobile operating system came the announcement about which iPhones, iPads and iPods will be able to get it when it's released. Here's a list of every Apple device that supports iOS 9:

- iPad 2, 3, 4, Air and Air 2
- iPad mini, mini 2 and mini 3
- iPhone 4s, 5, 5c, 5s, 6 and 6 Plus
- iPod touch (fifth generation)
- The next generation of iPhones and iPads will come with iOS 9 preinstalled



Twenty one iOS 9 tips

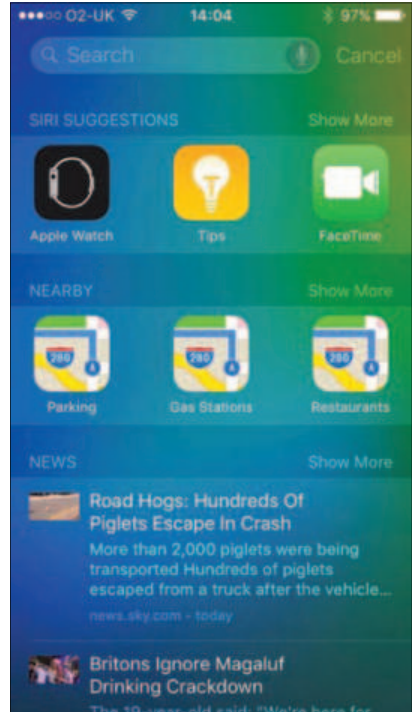
Our guide will help you master Apple's new OS

1. Teach iOS your routine

iOS 9 has arrived, and we're enjoying its plethora of new features. In this article we're going to walk you through some of our favourites, and help you to master the new features. We'll start with a little something we call 'Proactive'. This tries to stay one step ahead, always doing its best to work out what you'll want to do next and then offer a shortcut to that behaviour.

Ring your mum at a certain time each week? iOS will start placing her contact icon in your Search screen when the appointed hour approaches, so you can make the call with a single swipe (left from the first Home screen/pane, or downwards from any Home screen) and tap. Like to hit the tunes at the gym? You'll get a Now Playing in the lock screen at the usual time, or when you plug in the headphones.

How do you get these conveniences? Just use iOS as much as you can: it'll soon learn. And look out for the shortcuts. Remember to browse the Search screen to see how much iOS has picked up about your habits.



2. Have two apps onscreen at once

This one is just for the iPad. The simple form of multitasking involves opening any app and then swiping inwards from the right-hand side of the screen. You'll see a slim sidebar where you can pick another app, and have it open in that part of the screen while the first app remains visible in the rest.

Handy for various work scenarios: viewing an email and copy-and-pasting important elements into a Notes document open in the main window, for



example, or viewing a journey in Maps while noting down directions.

3. Have two tasks on the go at once

If you've got an iPad Air 2, you can take iOS 9's multitasking elements to the next level, by having two apps running side by side, and interacting with them both at the same time. This function is called Split View. You can also change the screen space devoted to each of the two apps, although the default appears to be 50/50.

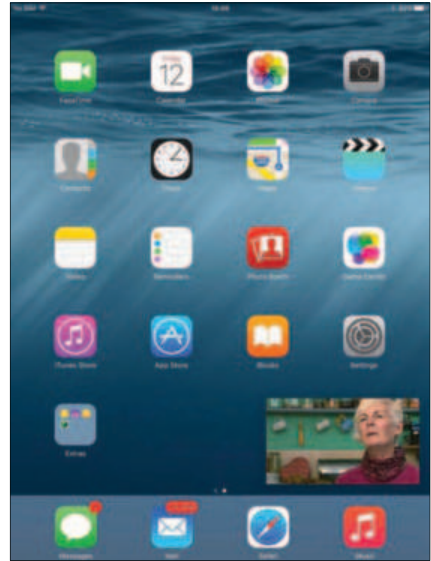


4. Picture in Picture

The third aspect of multitasking in iOS 9 is called Picture in Picture, and allows you to watch video clips and television programmes while working in other apps. On the Mac this sort of thing is easy: just run a video and place it in the corner while you work. On the iPad it's not been possible – until now.

Apple's new Picture in Picture mode moves the video into the bottom corner of the screen, while you carry on using another app. Whenever you're watching a video, you just have to press the Home button to tell iOS 9 to shrink the video screen down to a corner of your display. You can then open another apps normally, and the video will keep playing in its little window.

Picture In Picture works with Apple's video (the video you're watching can be live FaceTime video) and third-party apps can use Apple's SDK to implement PIP mode in their app. We hope the BBC implements it for iPlayer, and Google does likewise for YouTube.



5. Keyboard cursor

Let's look at the system keyboard next: it's not glamorous, but it underpins almost everything you do on an iOS device.



First up, and most ambitiously, Apple has given iOS 9's system keyboard the ability to move around a document with a virtual cursor. Simply tap and hold anywhere on the screen with two fingers at once, and the keys will all grey out. From now on, moving the two fingers will move the virtual cursor, automatically selecting any text between the original point where you started and the new place you've moved the cursor to.

It's tricky to get used to, even though Apple calls the function 'Easy text selection', and in some beta versions of iOS 9 was buggy. But we love that Apple is trying new things.

6. Shift key

We're back in the realm of mundanity now, but this is an important enhancement. The Shift key in iOS used to be deeply ambiguous, switching colour between the white of the normal keys (off) and the dull grey of the special keys (on) without



most people being able to remember which was which. Rather than adding colour to the On state, as some expected Apple to do, they've made the entire set of keys change from upper- to lower case, so you know exactly what's going on.

7. Shortcut bar

The final stop on our tour of the keyboard concerns the new icons that sit either side of the QuickType suggestion bar. These are shortcuts for common commands. Depending on the app you're in, the shortcuts will vary, but you'll always get Cut (scissors), Copy (a square and dotted square) and Paste (a solid square and clipboard). If space is tight, however (such as in Notes), these three may be hidden together under a single icon: the scissors. Tap it to reveal the full palette of options.

Notes adds shortcuts for formatting options (a capital A and a lower-case a), to-do lists (a tick in



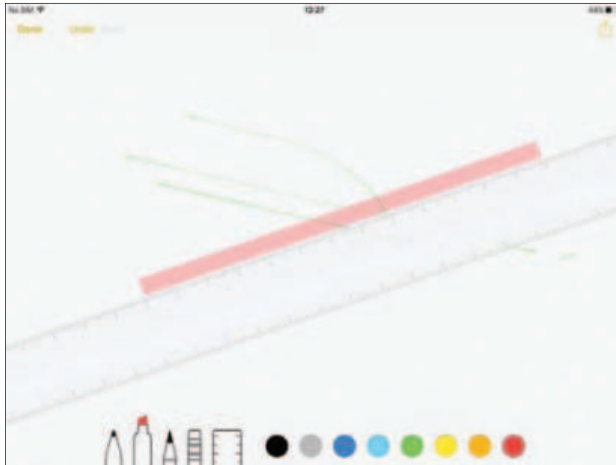
a circle) and sketches (a squiggle), both of which we'll discuss in later slides.

Other apps may offer a camera icon for adding pictures and videos; a paperclip for adding attachments; bold/italic/underlined letters for more formatting options; and so on. As you can see, most are self-explanatory. Experiment if you see one you don't recognise: there's no 'delete document with no confirmation' icon, as far as we're aware.

8. Add sketches

Let's return, then, to the neglected Notes app, which in iOS 9 has had a few new features added.

Most appealingly (at least to us) is its new support for quick line sketches. Tap that squiggle icon we mentioned in the last slide, and Notes will open a new window where you'll compose the sketch you wish to add to your document. Colours are selected along the bottom, as are pens and pencils of varying weight and texture (in fact, there are really only three options – from left to right: a straightforward thin pen line, a highlighter pen that will let pen lines show



through it, and a thin, textured pencil). You can also remove lines with the rubber.

Most fun of all – if digital stationery can ever be so described – is the ruler. Tap it once and it appears on the sketch; tap it again and it disappears. This can be moved around with a single finger, or rotated with two. And at any moment you can sketch along the edge of it with whichever pen/pencil tool you had previously selected (there's no need to 'deselect' the ruler and pick a pen).

There's an Undo and Redo at the top of the window; tap Done to save the sketch in your document. (You can also share or save the sketch on its own – use the sharing icon at the top right.) If you decide you want to modify the sketch after this point, tap it once in your document and the sketch-editing window will open again. Tap Done to return to your document, complete with updated sketch.

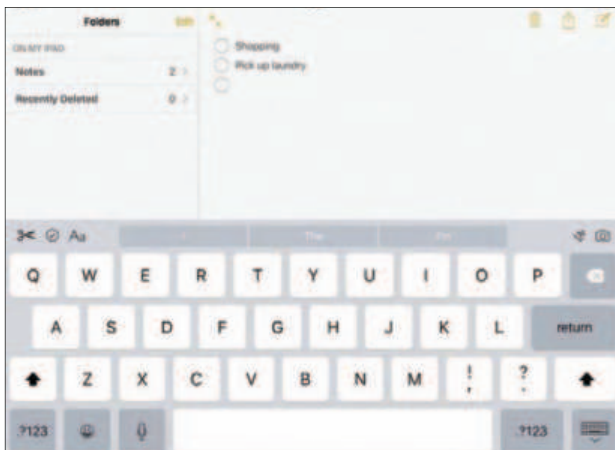
Finally, you can see which of your Notes have sketches attached, because a thumbnail of the

sketch will appear to the left of the document's entry in the list of files. If you've included two or more sketches, only the first will be shown.

9. Add to-do lists

This one won't take as long. But it can also be useful. Having taken on board the fact that many iOS users turn to Notes for shopping lists and other forms of the to-do list, Apple has made it easy to add tick boxes next to items on a list, so that you can make a note when each one is accomplished without having to delete it from the list entirely. (This can be handy for repeat lists that need to be performed every day, for instance, or a regular shopping list that is bought in whole or part on a semi-regular basis.)

Highlight your list, using the traditional method or the virtual cursor we mentioned above, and tap the tick-in-a-circle icon. They will immediately turn into tickable action points. Tap the same icon again to revert to a normal list.

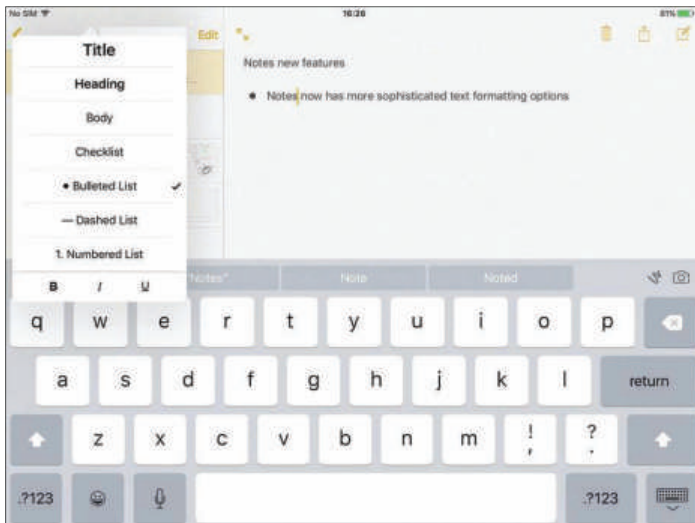


You can also hit Return to start a new line, and tap the icon once to create a single tick box that you can then write a caption for, if you'd prefer to do things that way round.

10. Formatting

Notes now has more sophisticated formatting options. These are now accessed via the capital A/ lower-case a icon, instead of from the options bar.

The app has seven text styles (as well as the previously available bold, italic and underlined styles), but three of these are available as a starting default: Title, Heading or Body. You can decide which one the app defaults to when you start typing in a new document by going to Settings → Notes → New Notes Start With. If you select Title or Heading, Notes will default back to the Body style for the second and subsequent paragraphs.



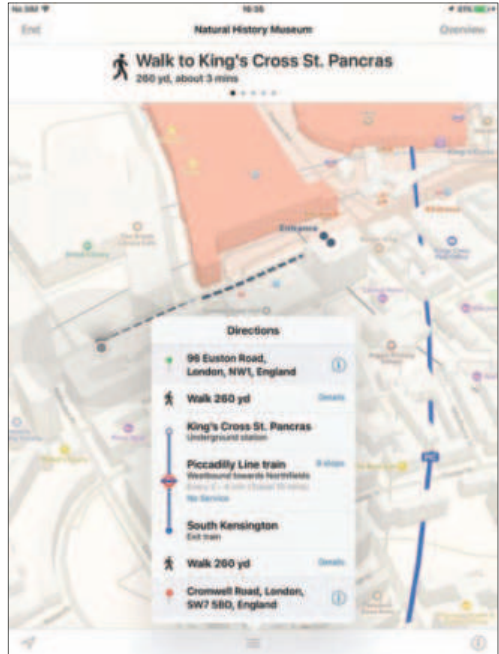
11. Public transport directions

If you're planning a journey and don't own a car, Apple Maps was no help at all in iOS 8, lagging years behind its Google counterpart. But iOS 9 adds public-transport directions at last. Search for a location, then tap Directions at the top left to bring up that section. Select the Transport tab.

Choose the route you wish to take from the options given, then tap Start at the foot of the page. Maps will guide you through your journey.

Alternatively, you can jump to directions from the pin that appears when you run the original search. Note that the pin has a time and a walking icon next to it; tap this and you'll open walking directions. Tap the Transport tab to revert to public-transport directions instead.

Bear in mind that, as far as the UK goes, public-transport directions will be limited to London. The list of supported cities is a bit surreal: six US cities, Toronto and some nearby cities in Canada, London, Berlin, Mexico City, and then more than 300 locations in China.



12. Power-saving mode

Here's a small but potentially huge change that we've been demanding for years: a system-wide battery-saving mode.

Whenever your iPhone drops below 20 percent power, a message will pop up to warn you of this fact and to offer Low Power Mode. Tap this to reduce animations throughout the system, decrease the time before the screen darkens, and generally make every effort to eke out your battery life for a little longer.

You can activate Low Power Mode at other times: look for the option in the new Battery section of Settings. (It's in the same grouping as the General section, and has a green icon.)

You can tell that Low Power Mode is in effect, by the way, by looking at the battery indicator at the top of the screen: whereas this is green when above



20 percent and red below, it will be orange if in Low Power Mode.

13. Apple News

Apple has been trying to bring better reading experiences to the iPad. Joining iBooks and replacing Newsstand is Apple's new News app.

If you've used Flipboard, then, you'll have a pretty good idea what to expect. News aggregates news stories from around the world and brings them to your iPad. When you first launch News, you'll be given a range of news outlets to choose, such as the Daily Mail or Vanity Fair. Then you'll get news stories from those organisations into your News app.



14. Wallet

Wallet is the new name for Apple's Passbook app. The name change reflects the prominence of Apple Pay in the app. Although Apple Pay is out in the UK already, it will be a lot more useful when iOS 9 arrives. Wallet isn't just a name change, though. A great new feature is Loyalty Card support, so you can now pay for items in your favourite stores and get automatic loyalty card points.

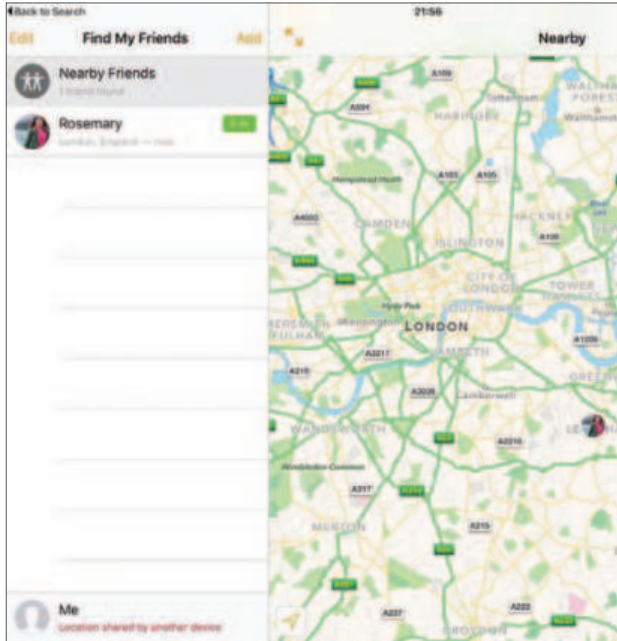


15. Back button

Google Android devices have always had a Back button that takes you back to the previous screen or app. While Apple isn't going so far as to add a new button alongside the simple Home Button, the company has added a new Back to... option in certain contexts when you're using iOS 9.

If you navigate from one app to another using the Notification pull-down or other direct jump, you'll notice a new 'Back to...' icon in the top-left of the screen. This new button takes you back to the previous app. (The option doesn't appear if you went back to the Home screen between apps.)

Similarly, if you go to the search page (swipe right from the starting Home screen) and select an option



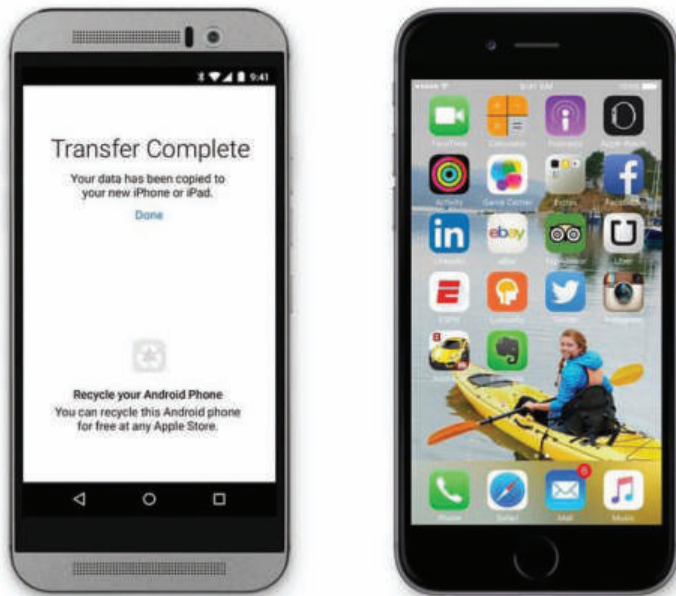
from there, you'll be given the option to go back to the search you ran.

We think this will be a very handy new tool to use, and generally makes navigation between apps a little more user-friendly.

16. Android Migration Assistant

Apple is making it easier than ever to migrate (we might choose to say 'upgrade') from a Google Android device to an iPhone.

A new app called Android Migration Assistant helps move all of a user's data over from their old phone to the new one. It transfers contacts, email accounts, music, photos, web history, wallpaper, as well as any DRM-free songs and books.



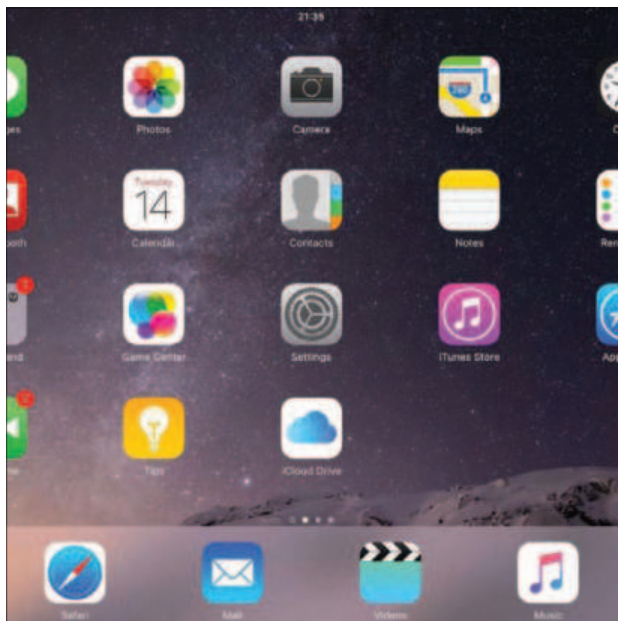
It also goes through the apps on a user's old Android phone and suggests equivalents on the App Store. Apps you've paid for on Android are added to the iTunes Wish List.

A nice idea, but wouldn't it be great if Apple could go one step further and negotiate with app developers to offer discounts to iOS users who've previously bought an app on Android?

17. iCloud Drive app icon

The iCloud Drive app has always been a bit of an oddball. Rather than being a discrete app, like Mail or Calendar, it sits behind the scenes and pops up inside other apps when needed.

One great new feature in iOS 9 is an option in Settings that turns on the iCloud Drive app, so



it appears as an icon on the home screen. This enables users to access the files in the iCloud Drive.

18. Toggle the flash light on (and off) while recording video

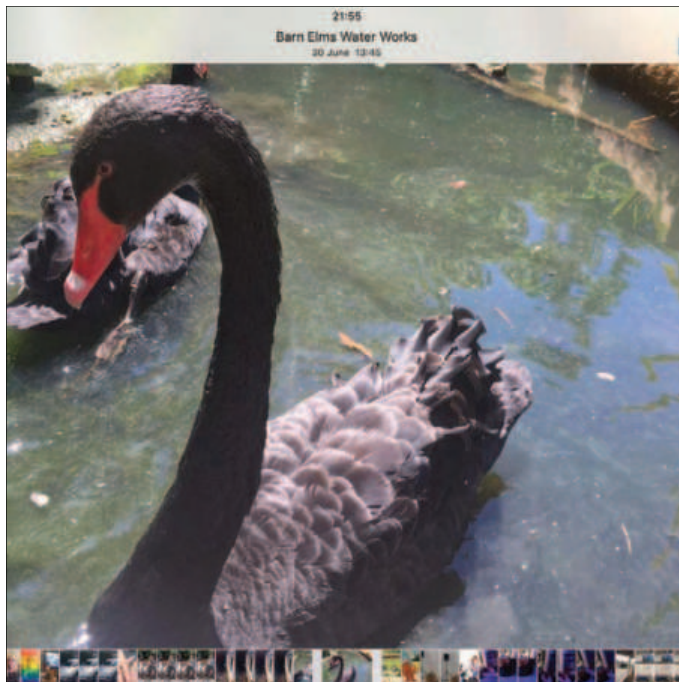
When recording a video, you can turn on the LED flash on an iPhone to light up the scene. This is great, but sometimes you don't need the flash on all the time. It's a small touch, but in iOS 9 you can switch the LED



Flash on and off during the recording of a video. So if you start recording a video and realise that you need a bit more light, iOS 9 will be able to deliver.

19. Improved Photos app

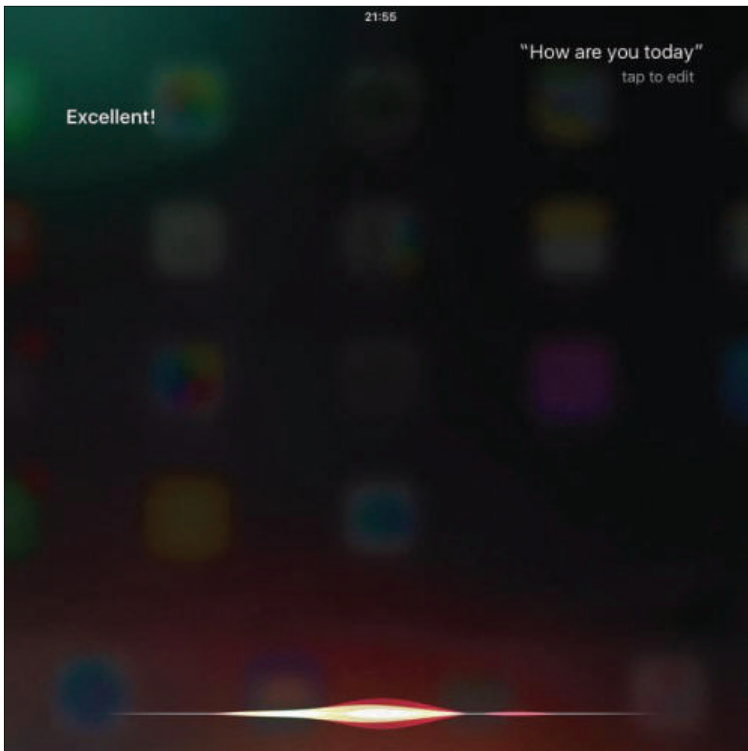
The Photos app has had a few upgrades that make it easier to scroll around all your images. When you open an image, you'll notice a new thumbnail strip. Sliding your finger across the thumbnail strip moves you quickly through the photo gallery. Another new gesture is a swipe down on Photos. This dismisses the photo and moves you back to the Albums view. You can also hide multiple photos at once using the Share Sheet.



20. Siri is more polite

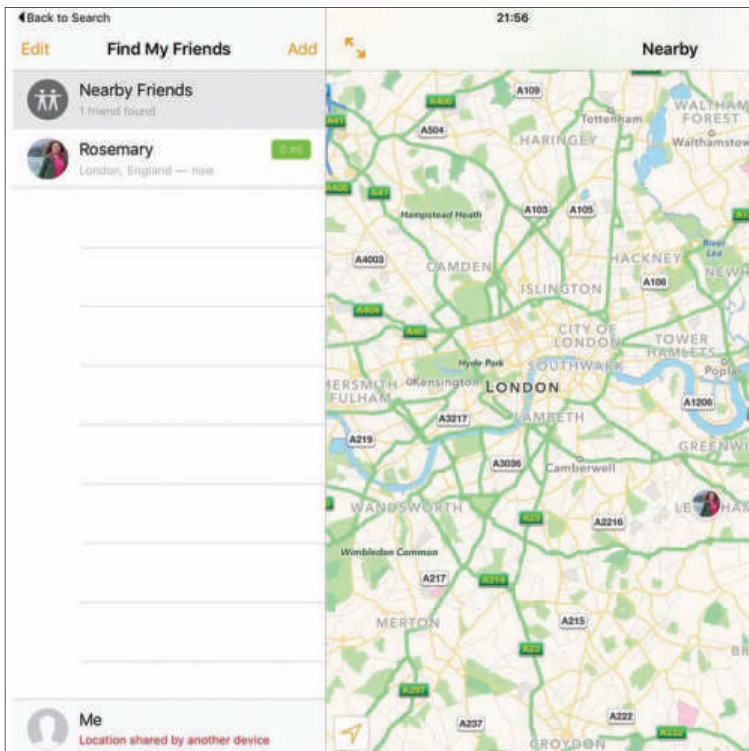
Siri is famous for its wise-cracking answers to your questions, but in iOS 9 it gets a little bit politer. When you mute your iPhone, Siri will no longer speak replies. Instead, it'll be quiet and just listen to your requests (and display answers on the screen). Siri also vibrates your iPhone to indicate when it's ready, rather than making noise.

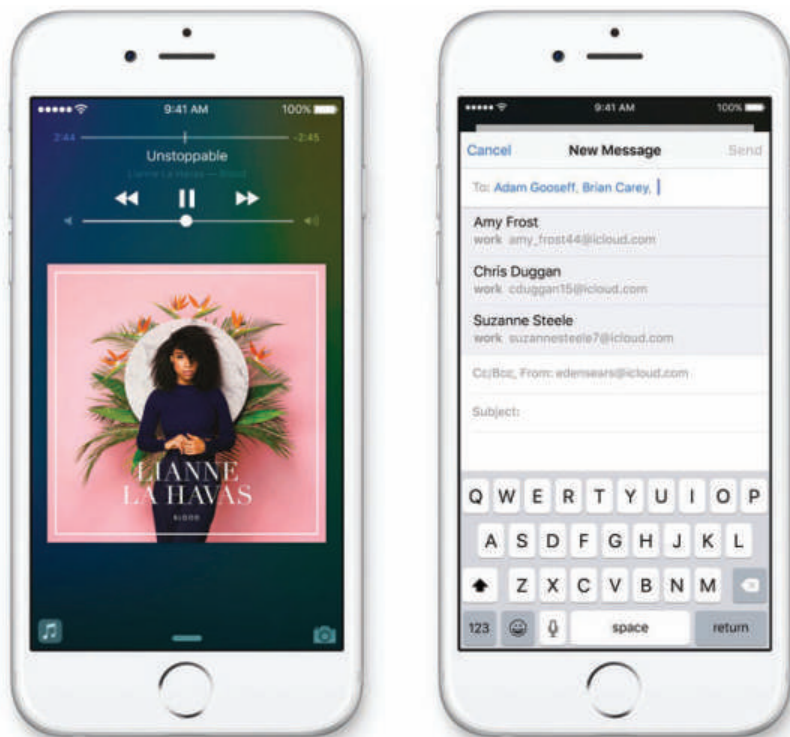
Don't worry. Siri is still as smart-mouthed as ever, and we're sure it's only going to get smarter as time goes on. And don't forget all the funny Siri responses you can enjoy.



21. Find My Friends and Find My iPhone now default

It's a little thing, but Apple is going to include Find My Friends and Find My iPhone as stock apps from iOS 9 onwards. We think Find My Friends and Find My iPhone are both fantastic apps, and most iPhone and iPad owners are well aware of their existence. However, by achieving the default app status, they'll be present on all iOS devices, so there's no excuse for anybody not to sign up. People are certain to complain that Find My Friends can't be deleted, though.





How to use Proactive

Get suggestions based on the apps you use most

If you're willing to allow it, Proactive will learn your habits throughout the day and offer relevant shortcuts to apps and functions based on your previous actions, as well as habits based on your current location. These shortcuts will be presented to you in the bottom left-hand corner of your iPhone/iPad's lock screen, a space usually reserved for Apple's 'Handoff' feature (which lets you use an

app on your Mac and continue where you left off on your iPhone).

Proactive also embeds itself in the Search menu, which has reverted to its position to the left of the home screen, as it was prior to the iOS 7 update. For those of you that have got used to the pull-down Search menu, don't worry – this is still available too, but won't show Proactive categories by default.

Contact suggestions

If you allow Proactive to monitor your habits, what kind of things can you expect it to do? For starters, it'll suggest contacts based on a number of factors – call/text frequency, location and even past habits. Lets say you always call your other half when you leave work to let them know you're on your way home. Instead of having to manually open the Phone app, select the contact and call them, you can instead swipe to the left of the home screen and access the Search menu.

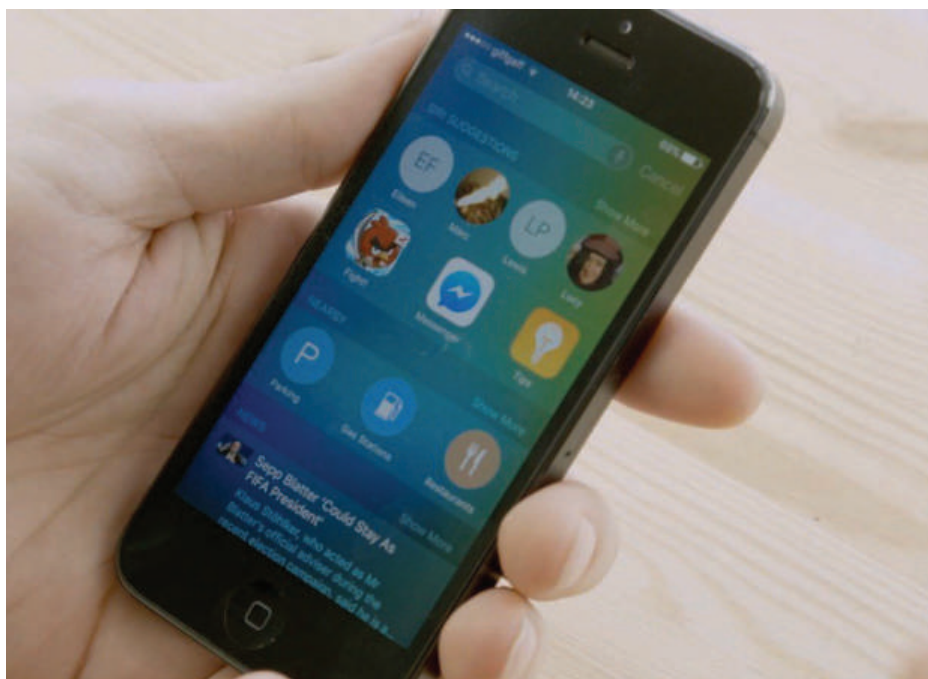
You'll be presented with icons of frequently contacted contacts, with a similar look to how frequent contacts are currently displayed in the multitasking menu in iOS 8. Tapping on an icon reveals shortcuts to message, call or FaceTime (if applicable) them, as well as an info button to open the contacts details in the Contacts folder.

Plus, if you create an event invitation or email, Proactive will suggest contacts you usually include with them. It bases this information on past events and emails with similar subject lines and event names, which both speeds up the overall process and makes sure that you haven't forgotten anybody.

App suggestions

There are two ways in which Proactive can suggest apps for you in iOS 9. The first is via the Search menu – underneath your suggested contacts, you should see a line of suggested apps. These suggested apps are ones that are frequently used, and the list can be extended from four to eight suggestions by tapping the ‘More’ option to the right of the screen.

However, we’re far more impressed by its second method of suggesting an app. Let’s say, for example, you always listen to music when you walk to work in the morning. As your iPhone learns your habits, it’ll automatically start playing music when you plug your

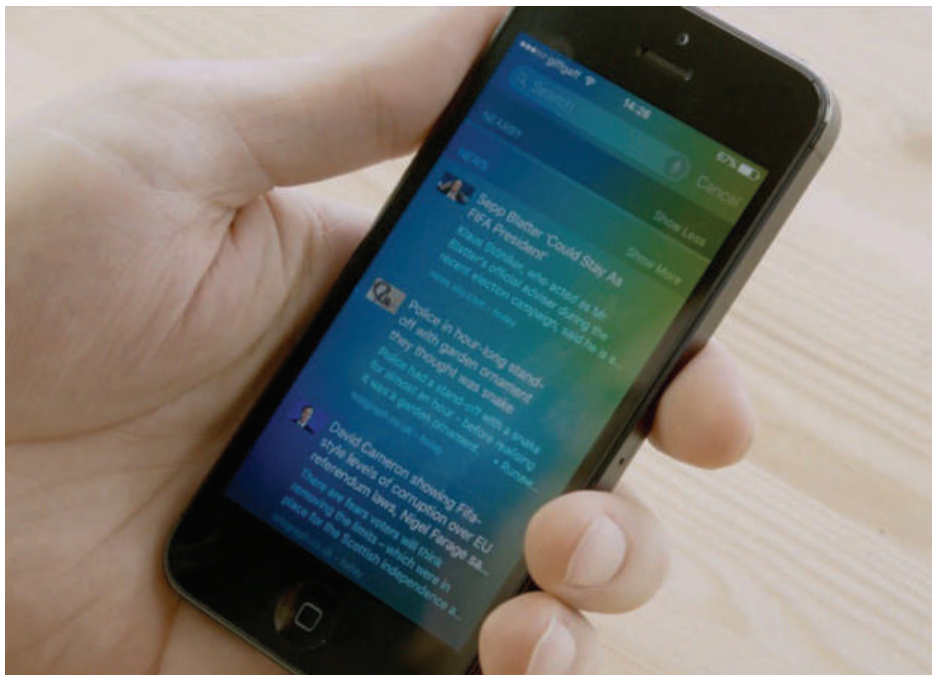


headphones in – but only at times when you usually play music. As well as this, it'll offer a shortcut to the Music app via a greyed out Music icon in the bottom left-hand corner of the lock screen.

It's not just limited to music though, it can be for any app – Craig Federighi gave an example during the WWDC 2015 keynote. He habitually meditates as soon as he wakes up in the morning, and showed his iPhone prompting him with a meditation app at the relevant time.

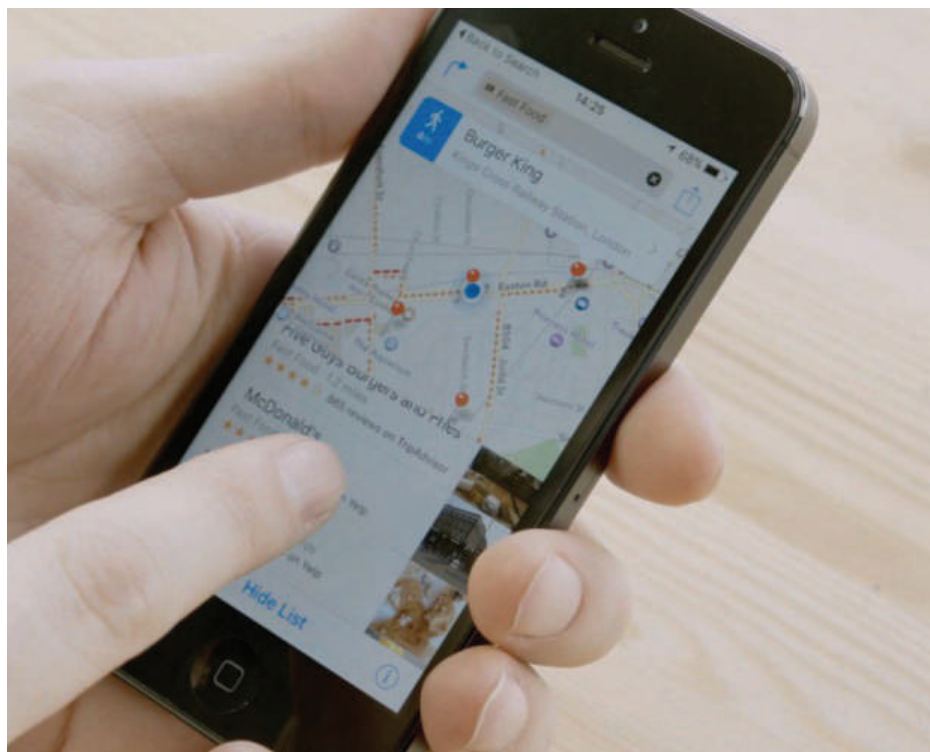
News

As well as suggesting contacts and apps for you, Proactive also has another trick up its sleeve –



news. Using your current location, iOS 9 will find the trending news stories in your area. This is accessible by swiping to the left of the home screen to access the Search menu, and scrolling down to the News subheading.

Four articles will be displayed by default, but more can be displayed by tapping the 'More' icon on the right-hand side. Featured articles (around our location in London) come from publishers including The Independent and Sky News. You'll be presented with its featured image, headline and the first three lines of the article.



Tapping on the article should open it in Safari, and you can quickly get back to the Search menu by tapping on the 'Back to Search' button that's displayed in the top left-hand corner whenever you open an app via Search.

Instead of linking to an article in Safari, iOS will open the article in Apple's newly announced News app. This Flipboard-esque app allows readers to create their own news stream based on topics and publications that interest them, and loads all articles in-app. However, until Apple launches iOS 9, we can't be too sure of its integration with the Search menu.

Nearby locations

This feature will be a lifesaver for those of us that travel a lot. When you access the Search menu, you'll be presented with vividly coloured icons of nearby points of interest. These icons allow you to one-tap search for points of interest around your location such as car parks, petrol stations, and restaurants. Tapping on an icon will take you to Apple Maps, where you'll be presented with a list of nearby locations that apply to your search.

These results don't only include the name of the business, but also a star-based rating system, Yelp! reviews and distance to the location. You can also visually see the results, with a litter of Pins being dropped around your current location on the map. Tapping a pin will highlight the result in the list and will present an option to get either walking, driving or public transport (if in a supported area) directions to the location.

Siri commands

Thanks to the new Proactive assistant, Siri has become a lot smarter and is able to do more than ever before. For example, if you went to New York City for a holiday, you could activate Siri and ask it to: “Show the photos I took when I was in New York City”. You should be presented with the photos you were looking for. How’s this done? Siri searches through your photos and bases its results on dates, locations and album titles.

That’s not all Siri can do either; it can also remind you about things you’re looking at in your apps at a later date. If you’ve found a new restaurant in Apple Maps that you want to check out later, you could say “Remind me to check out fuel when I get to my car” or if you’re half way through writing a document in Pages and need to stop, you could say “Remind me to carry on with this tomorrow”.

Intelligent Search

The combination of Proactive and Siri in iOS 9 doesn’t only result in suggestions and an improved Siri, but it also results in a much-improved search utility. Prior to iOS 9, your search results would include Wikipedia entries, Bing search results and App Store search results in addition to the standard contact, message, email and note results.

With iOS 9 you’ll be able to search for much more. So, for example, you could hunt for sports scores and schedules, allowing you to look for the latest Arsenal score instead of asking Siri to find it. You’ll also be able to search for the weather in

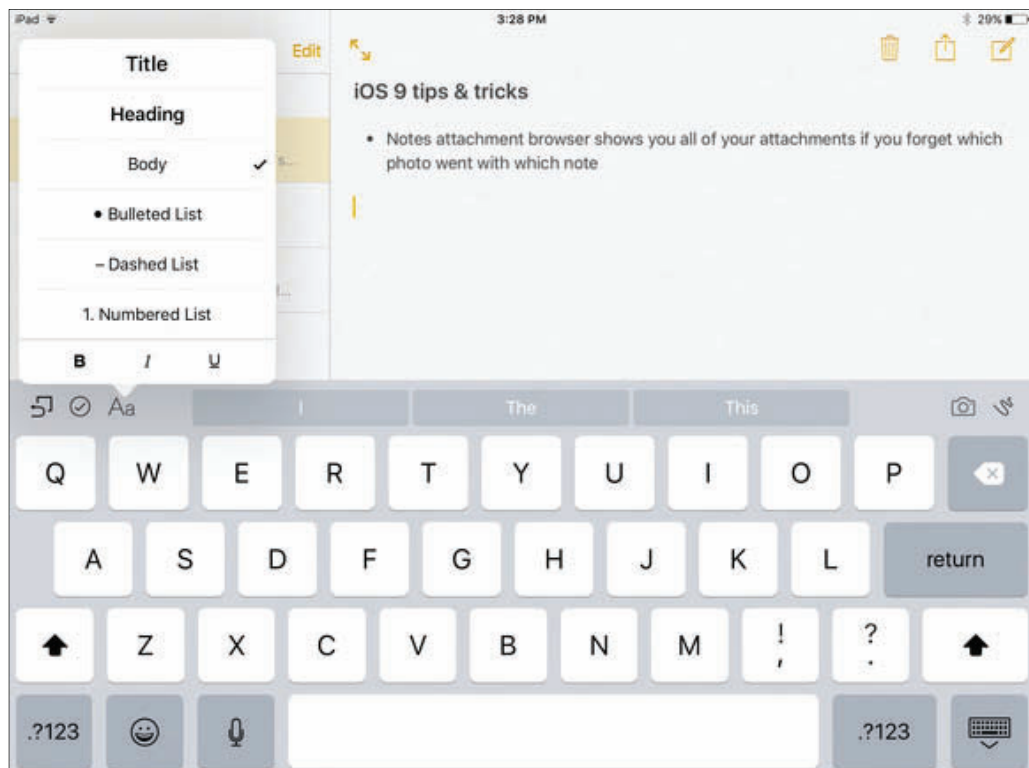
any location around the world, see the latest Stock prices and carry out calculations and conversions. However there's one other feature of the intelligent search that we can't wait to use. If developers add support, you can search for keywords in third-party apps. This means that if you have a recipe app installed on your iPhone, you could search for "sticky toffee pudding" and the search results will display the recipe, directly from the app.

Smart caller ID

We can't be the only ones that hate answering calls when we're not sure who's calling, right? Well Apple has decided to address this issue in iOS 9 with a smart caller ID. How does it work? Whenever you get a call from a number that isn't stored in your contacts, iOS will search through your emails to find a possible match. If a match is found, the senders name will be displayed underneath the number.

But what if you don't have the number in any emails? Not everyone emails first, so don't expect to get a heads up about those annoying PPI calls. However if the caller is calling from a land line, the origin of the call will be displayed underneath the number, giving you a better idea of who the caller could be.





Meet the new Notes

iOS 9's featured-packed Evernote rival

The Notes app for iOS has always existed as a utilitarian way to quickly jot down whatever comes to mind. It's devoid of fuss, which is perfect for times when you just need to make a quick list, but the lack of features opened the door to other, better note-taking apps such as Evernote, Awesome Note and OneNote.

But in iOS 9, Apple's native note-taking application catches up to those feature-filled rivals from third parties – and if you don't need a cross-platform solution, Notes might just become your go-to organiser.

Formatting

The most obvious change when you start to add text is formatting. You can finally adjust font size by selecting the title, heading or body – you don't have a range of font point sizes to choose from, but those three sizes are enough to get started. Bold, italicise, underline are all new options. You can make lists useful with bullet points, dashes and number formatting, plus you can turn a task into an item to be checked off with just a tap. Entire notes can be turned into checklists, or you can make specific sections of your text into to-dos to be checked off.

iCloud sync

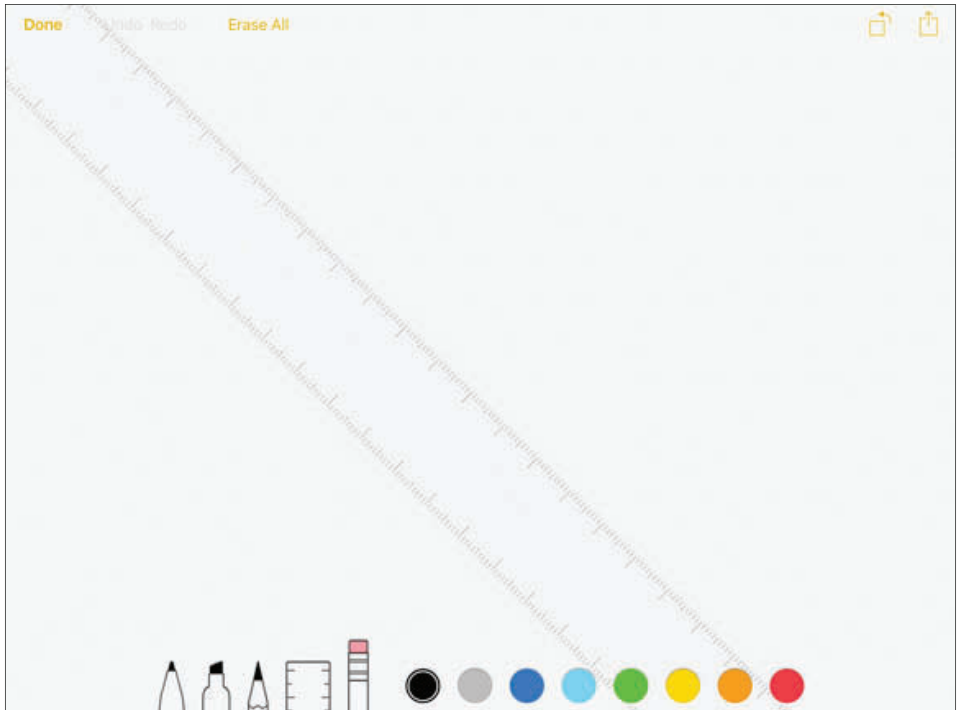
Using iCloud to sync your notes across your devices isn't new, but now you can add rich media to notes, the ability to resume a note on the go that you started on your Mac is even more convenient. You can shoot iPhone photos or videos and add them to notes you created on a desktop, and that information will be synced across all of your Apple gadgets.

If you were comfortable with the bare-bones Notes of old, you'll be delighted with these new tools. If you've found a feature-packed note-taking alternative, it's worth giving Notes a second look in iOS 9 – it might finally meet your expectations.

Sketches and photos

Notes supported photos before, but not like this. iOS 9 lets you shoot images and videos from within the app in addition to choosing an image from your Camera Roll. You can also add sketches to notes, which is perfect for those who use a stylus with their iPads.

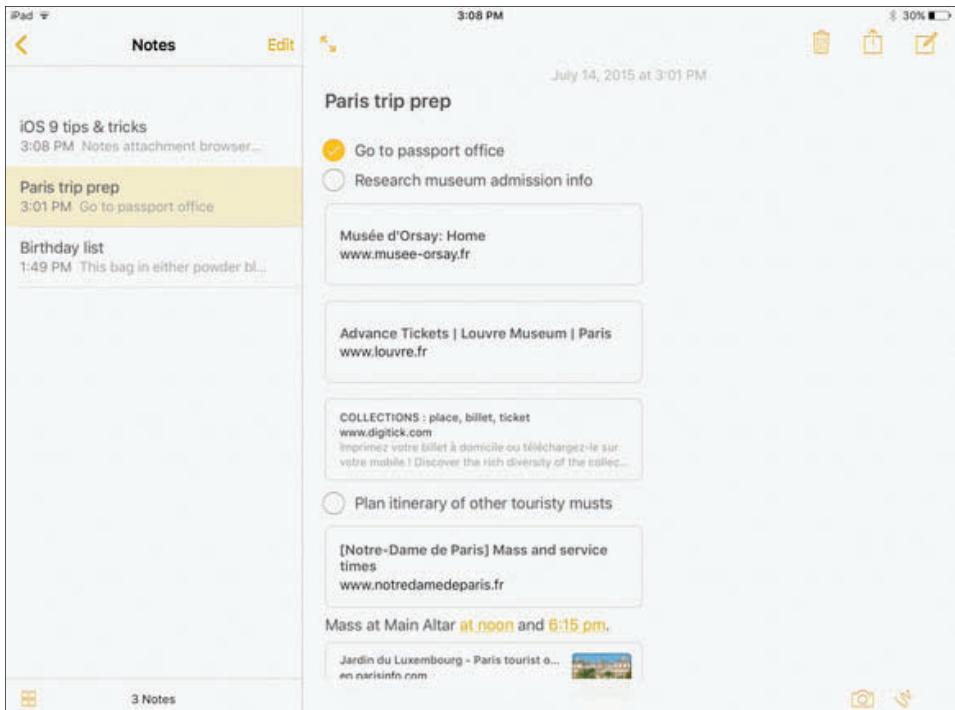
Just tap the squiggle that marks the sketch function on the bottom-right side of a note, then pick between the pen, marker, or pencil and choose which of the eight colours you want to use. There's even a ruler that you can tap to lay on the blank sketch pad for more precise drawing.



Share sheet

But it's the share sheet I've been using more than any other Notes tool. Now when you use certain built-in apps, such as Safari, Maps and Pages, you can tap to embed a web address, map or page in a specific note. It's as simple as picking which note you want to add the card to. I'm expecting a slew of apps to integrate the Notes share sheet over the coming months, which will make note creation even easier.

And if you forget which note you've added an attachment to, iOS 9's attachment browser displays which items are attached to which notes.





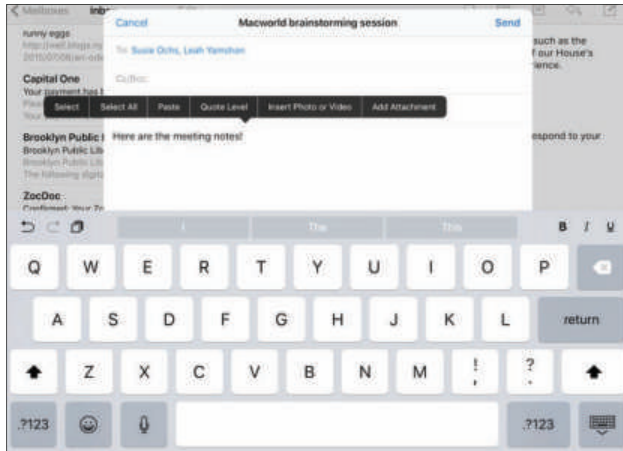
You've got Mail

Three changes that will improve Apple's email app

Unlike Notes and Maps, Apple's native Mail app hasn't been given a makeover in iOS 9, but a few tweaks have been made that will make managing your email less of a headache. Plus, Mail reaps the benefits of iOS 9's iPad multitasking features, which are game-changing on their own.

Attachments

The biggest change is the long-awaited support for file attachments. Now you can attach a document with a long press in the body of a message. Before,



your only option to add files to emails was to insert videos and photos. You can also save attachments by pressing on the file until the share sheet pops up with a new ‘Save attachment’ option. You can save to iCloud Drive or other locations, such as Dropbox, Google Drive, or another cloud storage locker (if you have those apps installed). You can select only one file at a time to add, which is mildly annoying, but if you’re trying to attach several files to one email, you’re better off sharing a folder with the recipient.

Proactive search

Apple is finally reaching its goal of turning your iPhone, with the help of Spotlight and Siri, into the best digital assistant around. In iOS 9, the search bar now turns up results from Mail, like documents and contacts, when you enter in keywords. The ability for search and Siri to tap into Mail gets even more useful when a strange number calls you – Siri will jump into your email to see if the digits match any in your inbox. If someone sends you an email

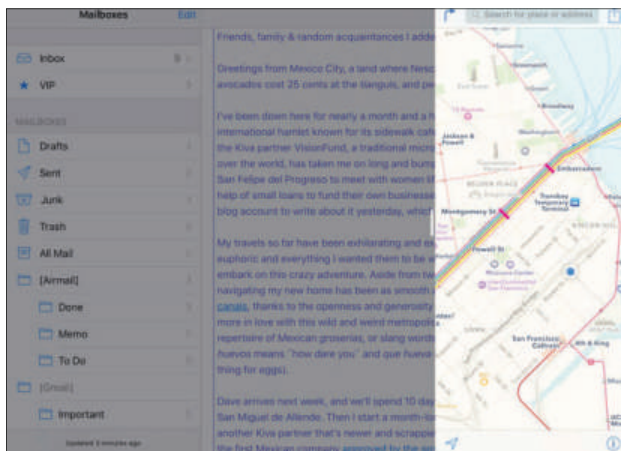
with a phone number, you can now easily add it to Contacts to prevent that unknown number issue.

Multitasking

The trio of multitasking tools iOS 9 brings to the iPad are pretty good, but they give Mail specifically a big boost in terms of productivity. Sadly, you can only tap into these features on the iPad Air, Air 2, mini 2 and mini 3 (and Split View is exclusive to the iPad Air 2). But if you have a late-model iPad, multitasking with Mail is about to change your work routine.

Slide Over

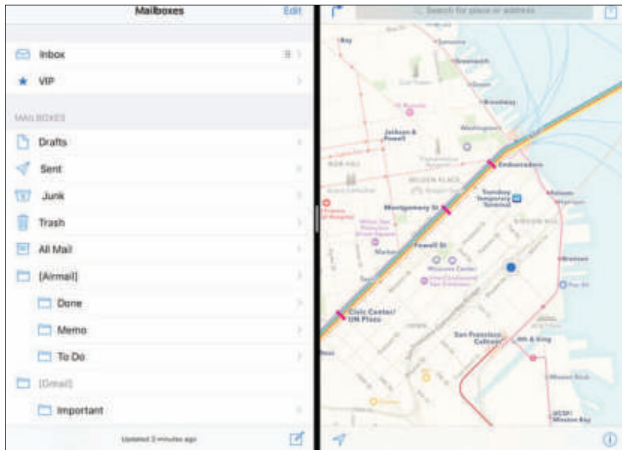
You can only use the new Slide Over app sidebar with Apple's built-in apps, and Mail happens to be the perfect use case. Press on the right side of your iPad and swipe right to bring the app tray into your sidebar. From there, you can select an app to open in the right-hand third of your screen, so if you're composing an email and need to map your route to



a destination, just pull up Maps and search for an address without leaving your message.

Split View

If you have an iPad Air 2, you can use Split View instead of Slide Over to read emails and view other apps side-by-side. Need to copy and paste details from Notes into an email? Split View is perfect. (Though you could do that with Slide Over, too.)



Picture in Picture

For those times when you have to get work done but your parents really want to have a FaceTime conversation, Picture in Picture is a great new way to multitask. You can move the picture around and resize it, so it doesn't block the email you're trying to read (or write), but it always remains the top window. iOS 9 hasn't dramatically change the Mail app at its core, but little tweaks and system-wide multitasking tools make email slightly less awful to manage.



Maps' new features

Apple's Maps is finally catching up with Google Maps

Apple's native Maps app currently sits in a folder called Junk on the second page of my home screen, where I banished it as soon as it launched close to three years ago. Mainly because it lacked public transport directions. That's how I get around the city, and while Maps points you to third-party apps for underground information, I need an all-in-one solution. Google Maps tells me how to get where I'm going by foot, in a car, or on the train, so it's my go-to whenever I leave my flat.

But iOS 9 makes Apple Maps a strong contender with the addition of mass transit directions that,

so far, are just as accurate as Google's. Plus, it has a range of other improvements, like better communication with your Mac and some nice discovery features.

Public transport

I mapped my way to several familiar destinations to gauge whether the trains and routes Maps suggested were the quickest and most efficient ways to end up at my destination, and they were. Bonus time-saving feature: Apple Maps shows you where subway entrances are in flyover mode, which is incredibly useful. London St. Pancras has several entrances, but if you don't know where the closest one is, you could end up walking several blocks out of the way. Now entrances are helpfully marked 'Entrances' in Maps.

Nearby

Apple is taking a page from Yelp with a new feature called Nearby, which shows you shops, restaurants, places to drink, and other types of businesses around you or near the destination you enter in the Maps search bar.

Being able to see businesses in the area is helpful, but getting to Nearby isn't exactly intuitive. You can't tap into it when you're getting directions, for instance. After you enter an address in the search bar and the map drops its pin on the destination, tap on the address in the search bar again – that's how you get to Nearby. A pop-up menu lets you get more specific. Tapping on 'Food' lets you see all food nearby, or you can drill down to supermarket,

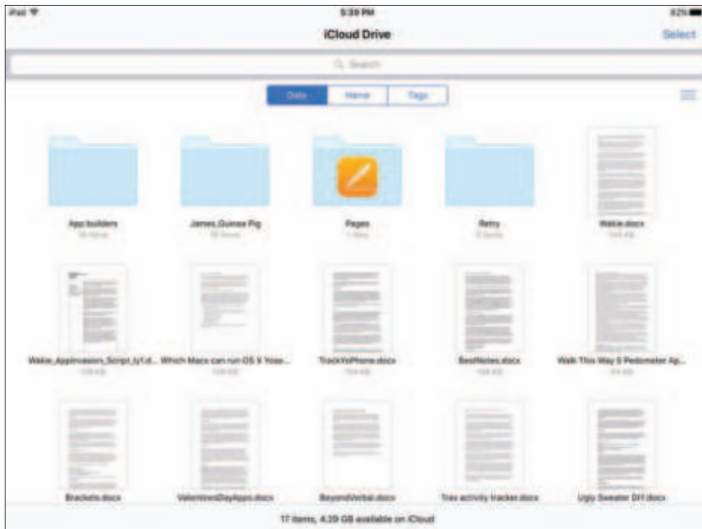


fast food, cafes, bakeries, dessert shops, and so on. I appreciate the Yelp integration, it means I can see if that restaurant I've never heard of is well-reviewed or one to avoid.

Handoff with El Capitan

Handoff between your Mac running OS X El Capitan and your iPhone running iOS 9 is nearly identical to the experience between Yosemite and iOS 8. Just double-tap the Home button on your iPhone or iPad and look for the Maps pop-up on the bottom of the screen to grab the Maps info stored on your Mac.

If you're on your Mac, look for a pop-up in the bottom-left corner in your Dock to launch Maps information shared from your iOS device. It's a pretty seamless experience, and works with all of Maps's features. Beam transit directions, Nearby information, or whatever you'd like.



In the clouds

iCloud Drive makes it easier to access the cloud

If you're a regular user of iCloud Drive, Apple's Dropbox-like storage solution for managing file syncing between your Mac and iOS devices, then your life is about to get a little bit easier. Apple has designed a standalone iCloud Drive app and bundled it within iOS 9, placing all of your iCloud Drive files in one easy to access spot.

But, surprisingly, the iCloud Drive app doesn't automatically appear on your iOS device's home screen – it's instead tucked away within Settings, and you'll have to tell your iOS device that you want to see it. Besides that, it's a pretty straightforward app. I spent some time with it while

checking out iOS 9, and here are some quick tips on getting started.

Turn it on

I appreciate that Apple hasn't added yet another app to its preinstalled, cannot-erase repertoire (I'm looking at you, Stocks, Compass and iBooks). Instead, iOS 9's iCloud Drive app is opt-in, and you can enable/disable the app at will. Just go to Settings → iCloud → iCloud Drive, and toggle on the switch next to Show on Home Screen. That will make the app's icon appear, instead of keeping it hidden away.

Syncing documents

You've always had access to your iCloud Drive files on iOS, but they could only be pulled up via compatible apps. For example, if I wanted to continue editing a .docx or .txt file, I would first have to launch Pages on my iPhone or iPad, and then open the document saved in iCloud Drive.

With iOS 9, once you've enabled the app, you'll find all of your iCloud Drive documents neatly organised within. It's pretty barebones, somewhat mimicking the folder and file experience you would get on your Mac. Tap on any file to view it. From there, you can move that file to a different iCloud Drive folder, trash it, or share it.

Editing is a different story. You'll have to export the file to a different app such as BestNotes (pictured) if you'd like to make any changes. Tap the Share button in the top-right corner, and then select the app you'd like to export the file to. You'll



be redirected to that app, where you can edit and change the file at will.

Depending on the file type, some of your formatting preferences, such as font, might be different, and the app might create a separate file that's better suited for editing. iCloud Drive also creates folders for each of the apps you've used to manage documents – so you'll find documents you've worked on in Pages in the Pages folder, for example, and Byword files in the Byword folder. Even with these quirks, every change you make will sync back to iCloud, and you can pick up where you left off on any device synced with your iCloud account.

Though the app might not look like much, organising your files in a centralized iCloud Drive app makes them much easier to access, and might even make iCloud Drive a handier resource for your workflow.



Family Sharing in Photos

How to share your pictures using the Photos app

If more than one Mac- or iOS device-using person lives under your roof – or if you share your Mac with one or more people – using Photos in a family situation can be a complicated affair. Because you can't share Photos libraries across a network, you quickly end up with multiple libraries (one for each Mac user account) and nobody remembers which pictures live where. It's a nightmare; but fortunately, Apple has a solution.

Meet Family Sharing

Family Sharing enables you to create a special group that you invite family members to join. The end result is a shared album named Family that everyone in

the group can access (and it can't be shared with anyone outside the group). Family members can easily add or remove their own pictures and videos, which are viewable and downloadable by everyone in the group. This album is also accessible on the web; just visit iCloud.com and sign into your iCloud account to see all the goodies it contains.

With Family Sharing, each person maintains his or her own Photos library and gets to choose what's shared with everyone else. This gives each member some level of privacy while you, Family Commander-In-Chief, have access to shared items and can download them into your own library in order to include them in projects such as books, calendars, and cards

It's a great long-term solution, too. For example, as family members get additional iOS devices, their own Macs, or they move away, their unique Apple ID ensures that all their pictures, videos, emails, and so on migrate to the new devices. Plus they can continue to share digital proof of their adventures, even from far away.

And that's not all; the Family album is just one of several services that you can share among the members in your group. Other services include a shared Calendar, purchases from Apple's App store, iBooks store, and iTunes store, and tracking the locations of Macs and iOS gadgets.

How to set it up

User accounts

If you haven't done so already, set up each person with their own user account on the shared Mac

so they get their own Photos library, email, iCloud document storage, and so on.

Apple IDs for everyone

If any of your family members lack an Apple ID, go online and sign up. Bear in mind that an Apple ID is automatically created when someone purchases an item from Apple.com or you turn on iCloud services on a device running iOS 5 or later, so check for existing accounts.

Create a Family Group

You can perform this on your Mac or on your iOS device. On a Mac, go to System Preferences → iCloud. In the resulting pane, click Set Up Family, and then follow the onscreen instructions. To set up family sharing on an iOS device, tap Settings → iCloud. On the next screen, tap Set Up Family Sharing, and then tap Get Started. Because Family Sharing extends beyond sharing pictures and videos and into the realm of iTunes purchases and so on, you're prompted to enter a credit card.

Invite people to join the Family Group

Now that you have a Family Group, you can invite family members to join it. On a Mac, go to System Preferences → iCloud and click Manage Family. Click Add Family Member or click the '+' button at the lower left and then follow the onscreen instructions. On an iOS device, go to Settings → iCloud → Family → Add Family Member.

You'll need each family member's email address. When you've finished entering the first address,



click Continue. If you entered an email address associated with the person's Apple ID, the next pane lets you enter their Apple ID password or, if you don't, you can trigger an email invitation.

Your invitation winds up in the recipient's email inbox. Once they click the big blue View Invitation button in the body of the email, the Family Sharing preferences pane springs open and lists all the slick things they can do – share purchased music, movies, apps, and books; share pictures and videos; and share events on a family calendar.

Next, your recipient will need to click Accept. If the person belongs to another family group, a message appears stating that they have to leave that group before joining another one. Your recipient

can click OK, and then use the preference pane that appears to extricate his or herself from the other group. (Apple limits you to being a member of only one family group, and you can only switch family groups once per year.)

To check whether your family sharing invitation has been accepted, in the iCloud system preference and select Manage Family. Select a person's name to see the status of their invitation. If you need to resend it, select Resend Invitation. To check your invitations on an iOS device, tap Settings and in the iCloud pane, tap Family. If necessary, you can resend an invitation from there. No matter what, Photos automatically creates a new album named Family in Shared view. Apple also adds a Family category to the Calendar and Reminders apps.

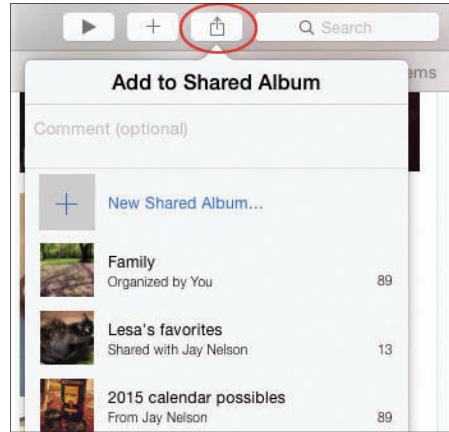


Start sharing

Anyone in your family group can now add pictures and videos to the album, though it's easiest if you turn on the sidebar, which is like iPhoto's source list. Choose View → Show Sidebar and then drag thumbnails from the preview area into the Family album. The new content immediately appears in the Family album on the other group members' devices.

It's important to remember that shared items don't live on your hard drive (that is, unless you shared them). If a family member wants to edit or include a picture or video in a project, you need to download it from the Family album into your personal Photos library. To do it, drag the thumbnail(s) onto the Photos entry at the top of the sidebar or into an album in the Albums section of the sidebar. You can also Ctrl-click the selected thumbnail(s) and choose Import from the shortcut menu that appears. Either way, the item now lives in your Photos library.

Now you can sit back and enjoy the fruits of your family sharing labours. Remember though, this isn't the way to share content with just anyone. As you recall, you entered a credit card that's now shared by all the family members in your group. To share goodies with those you aren't financially responsible for, use regular iCloud shared albums instead.





Set up Photo Stream

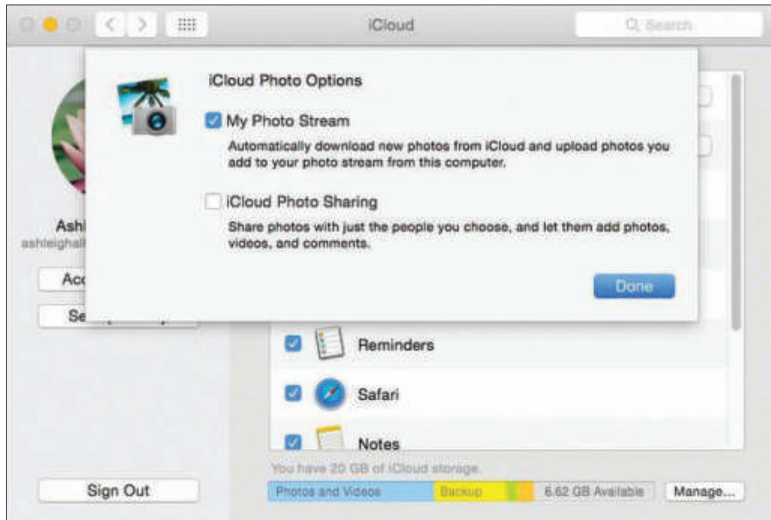
We reveal how to view your photos on all your devices

Apple's My Photo Stream is an excellent way to manage and view your photos on all your devices. The automatic service syncs all your Apple devices using iCloud, meaning that your photos appear on your iPad, iPhone and Mac without the need to plug in a cable or send anything via email. You can view the past 30 days of photos on any device. In this tutorial, we show you how to set up My Photo Stream.

My Photo Stream can be used without turning on iCloud Photo Library, which would allow you to share more photos but has an associated cost.

1. Create an iCloud account

For Photo Stream to work you'll need to have an active iCloud account. Usually you'll create this when



setting up a new machine, but if you skipped that part it's easy and free to open one now on your Mac or iOS device.

On your Mac, click on the System Preferences icon in the Dock, then select iCloud and enter your Apple ID. You'll be given a few settings to enable, just make sure you click on Photos and ensure the My Photo Stream box is ticked.

To create an account on an iOS device, go to Settings, iCloud, and enter your Apple ID.

2. Enable iCloud in iPhoto

Now you'll need to give applications permission to use it before any photos will be able to download. Launch iPhoto on your Mac and look in the left-hand column where you'll find the Library, Recent and Sharing categories. Under the latter is iCloud. Click on this and then select the Use iCloud option.



If you've updated to the latest version of Yosemite, you'll find that there is a new icon in your Dock that looks just like the Photos icon on your iPhone. That's the new Photos app that replaces both iPhoto and Aperture. Launch it and if you want to set up just My Photo Stream and not iCloud Photo Library, click skip when Apple asks you to sign up. Now, go to Photos → Preferences in the navigation bar at the top of your screen, and click iCloud, then tick My Photo Stream.

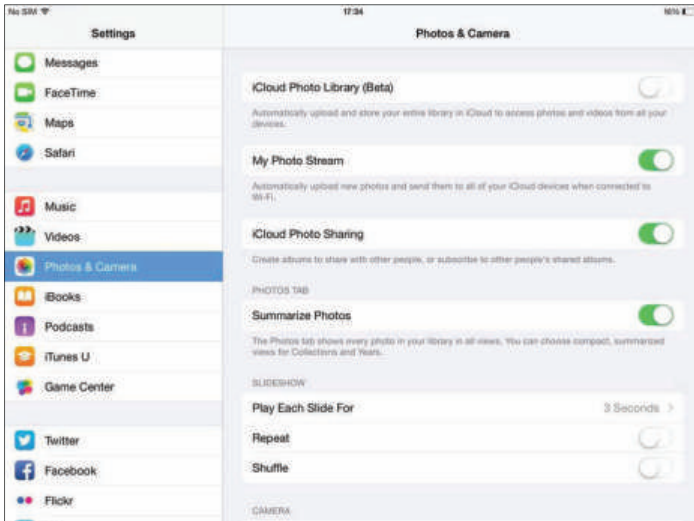
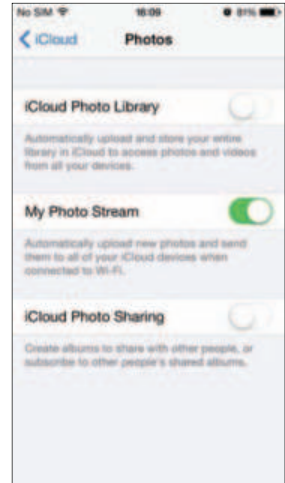
3. Enable Photo Stream on your iPhone

As the iPhone is likely to be the device you use most for photography, having a working Photo Stream is important. To do so, you'll need to go to Settings, then iCloud, then Photos. Here, you'll want to make sure My Photo Stream is turned on.

If you own one of Apple's newer iPhones, you may also see the Upload Burst Photos option, which will transfer only your favourite photos from Burst Mode if you enable it. This is something we'd recommend, otherwise your library would be swamped with duplicates of the same image.

4. Enable Photo Stream on your iPad

As the iPad is running the same software as the iPhone, the setup is pretty much identical. The one omission is the Upload Burst Photos option because this is a feature the iPad doesn't have yet. To enable Photo Stream, go to Settings → iCloud → Photos and then ensure that the My Photo Stream button is green.



5. Take a picture to see how it works

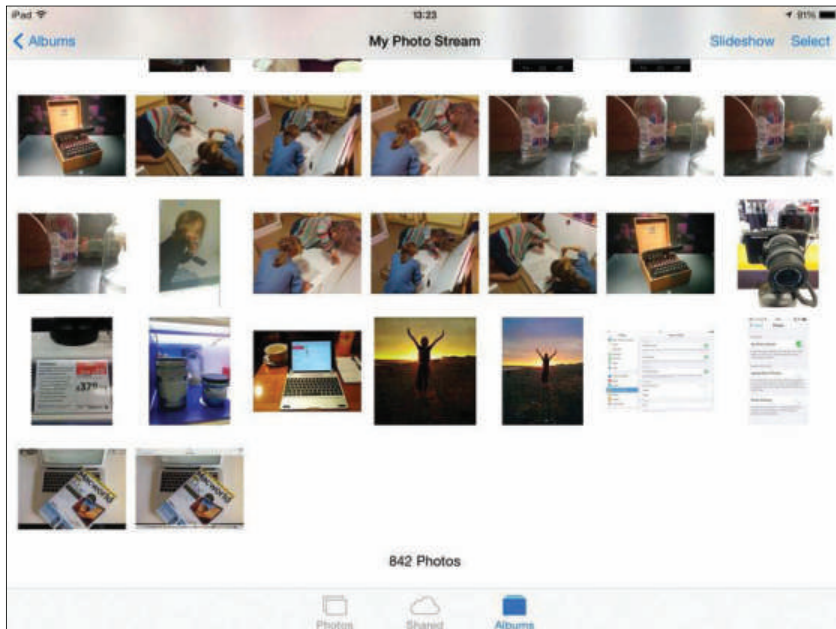
With your iPhone or iPad, take a picture of something. Next, go to the Photos app on your Mac



(or iPhoto if you're still using it) and, as long as you're connected to Wi-Fi, you should see the photo arrive shortly after you snapped it on your iOS device.

6. How many pictures can Photo Stream store?

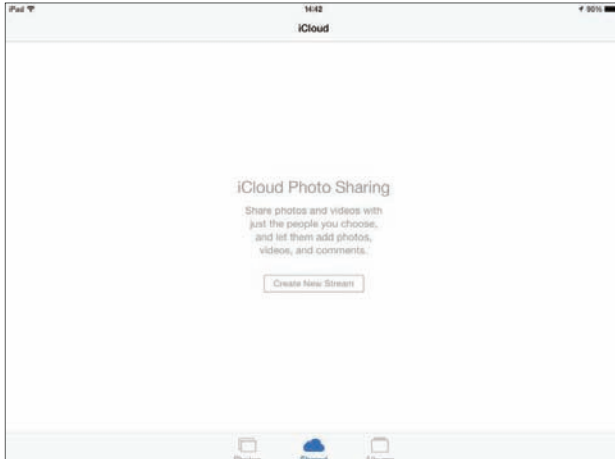
While Photo Stream is very easy to use, understanding how the storage works can be a little more challenging. You are entitled to 1,000 photos, which is a large amount, and none of these count against your iCloud storage. One thing to note though, is that the images are only held on the iCloud servers for 30 days, so if you want to



back up iPhone photos on your Mac don't forget to download them.

7. Sharing a screen

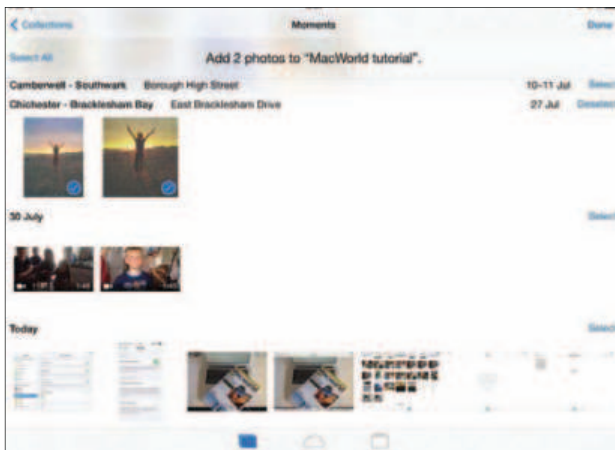
First off, you'll also need to check that Photo Sharing is enabled by navigating to Settings → iCloud → Photos on your iPhone or iPad and switch on iCloud Photo Sharing. Then go to the Photos app on your device and tap the Shared icon at the bottom of the screen. After the library has updated, you'll see the option to Create New Stream. Tap this, name the Stream, and then add the contacts you wish to share your photos with. Bear in mind that the recipients will need to have Apple IDs and iCloud accounts to access the Stream.



Now tap Create and your Stream is ready. You can create multiple Streams and add different photos in each.

8. Adding photos

Tap on the Stream name you've created and you'll see the folder is empty. To remedy this tap the plus



box in the top left corner then select the photos you wish to share in the Stream.

You can do this individually or tap on the Select option on the right, which will highlight all the images in that particular group. When you're happy, tap Done, add a note if you want to, and the Stream is now accessible to those you invited.

9. Photo Stream in iOS 9

The 1,000-photo iCloud sync limit is replaced by an all-encompassing iCloud Photo Library. You can keep your photos on your iPhone locally and continue to use Photo Stream as described in iOS 9, or you can use the iCloud Photo Library.

If you enable it, any photo or video you shoot will be automatically uploaded to iCloud. That content will be stored at its full resolution and in its original format. All of those images will be viewable on any of your iOS devices or on the web, as well as in the new Photos app on your Mac.

You'll get 5GB of storage space for free as part of your iCloud account, and you'll be able to buy 20GB for 79p per month or pay £3.49 per month if you want 200GB.



